This is a digital copy of a book that was preserved for generations on library shelves before it was carefully scanned by Google as part of a project to make the world's books discoverable online.

It has survived long enough for the copyright to expire and the book to enter the public domain. A public domain book is one that was never subject to copyright or whose legal copyright term has expired. Whether a book is in the public domain may vary country to country. Public domain books are our gateways to the past, representing a wealth of history, culture and knowledge that's often difficult to discover.

Marks, notations and other marginalia present in the original volume will appear in this file - a reminder of this book's long journey from the publisher to a library and finally to you.

Usage guidelines

Google is proud to partner with libraries to digitize public domain materials and make them widely accessible. Public domain books belong to the public and we are merely their custodians. Nevertheless, this work is expensive, so in order to keep providing this resource, we have taken steps to prevent abuse by commercial parties, including placing technical restrictions on automated querying.

We also ask that you:

+ *Make non-commercial use of the files* We designed Google Book Search for use by individuals, and we request that you use these files for personal, non-commercial purposes.

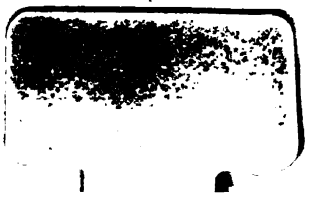
+ *Refrain from automated querying* Do not send automated queries of any sort to Google's system: If you are conducting research on machine translation, optical character recognition or other areas where access to a large amount of text is helpful, please contact us. We encourage the use of public domain materials for these purposes and may be able to help.

+ *Maintain attribution* The Google "watermark" you see on each file is essential for informing people about this project and helping them find additional materials through Google Book Search. Please do not remove it.

+ *Keep it legal* Whatever your use, remember that you are responsible for ensuring that what you are doing is legal. Do not assume that just because we believe a book is in the public domain for users in the United States, that the work is also in the public domain for users in other countries. Whether a book is still in copyright varies from country to country, and we can't offer guidance on whether any specific use of any specific book is allowed. Please do not assume that a book's appearance in Google Book Search means it can be used in any manner anywhere in the world. Copyright infringement liability can be quite severe.

About Google Book Search

Google's mission is to organize the world's information and to make it universally accessible and useful. Google Book Search helps readers discover the world's books while helping authors and publishers reach new audiences. You can search through the full text of this book on the web at `http://books.google.com/`



ADMINISTRATION REPORT

OF THE

MADRAS MUNICIPALITY

FOR

1879.

MADRAS:
PRINTED AT THE LAWRENCE ASYLUM PRESS, MOUNT ROAD,
BY W. H. MOORE.

1880.

CONTENTS.

I.—GENERAL.

	Page.		Page.
Elections	1	Subjects considered	1
Meetings	*ib.*	License Tax	*ib.*

II.—FINANCIAL.

Sanctioned Receipts and Expenditure ...	1	Workshops...	2
Water Works Loan	2	House Services of Water Supply ...	*ib.*
Stores	*ib.*	Auditors' Report	*ib.*

III.—COLLECTION OF TAXES.

Tax on Arts, Professions, &c.	2	Tax on Vehicles and Animals	4
Tax on Houses, Buildings and Lands ...	3	Tax on Vehicles without Springs ...	*ib.*
Payments for Occupation of Municipal Lands	*ib.*	Tolls	*ib.*
		Tax on Liquor Shops	*ib.*
Water Tax	*ib.*	Miscellaneous Collections...	*ib.*
Lighting Tax	*ib.*	Sewage Farms	*ib.*

IV.—PURPOSES OF THE MUNICIPAL ACT.

Education	4	Latrines	6
Hospitals and Dispensaries	*ib.*	Drainage	*ib.*
Public Health—Births	5	Water Supply	*ib.*
—Deaths	*ib.*	Roads	7
Vaccination	*ib.*	Lighting	*ib.*
Sanitary Inspection	6	Public Parks	*ib.*
Conservancy	*ib.*	Avenues	*ib.*

APPENDICES.

I.—Statement of Receipts and Disbursements with Auditors' Report and Order of Government thereon 8

(*a*)—The Acting President's Review of the Auditors' Report and the Order of Government thereon 22

(*b*)—The Acting President's Report on certain surplus Educational Grant and the Order of Government thereon 26

(*c*)—The Acting President's Report on an embezzlement in the House Tax Department and the Order of Government thereon... 28

II.—Report of the General Department 34

III.— Do. Revenue Department 57

IV.— Do. Public Works and Conservancy Department 87

IV*a*.— Do. Committee on disposal of Night soil 163

V.—Vital Statistics... 172

MUNICIPALITY OF MADRAS.

REPORT OF THE PRESIDENT FOR THE YEAR 1879.

I.—GENERAL.

The year 1879 was the first under the working of the new Municipal Act V of 1878.

Elections.—The elective system, the chief feature of novelty in this Act, was put into force during the month of April. When the lists were completed it was found that there were 271 persons qualified to be elected Commissioners, and 2,196 qualified to vote for the election of Commissioners.

Out of the 15 Commissioners elected under the new system, 5 had been Commissioners under the previous Act.

58 of the elections were contested, and on an average 45 per cent. of the voters exercised their right of voting. The largest percentage, viz. 63, of voters appeared in the seventh Division, and the smallest, viz. 37, in the fifth Division.

Meetings.—There were 6 General and 9 Special Meetings of the Commissioners during the year, and the Standing Committee met 42 times.

Subjects considered.—Besides the regular business connected with budget and accounts, the schemes for Drainage and Water Supply were again discussed. It was resolved to make a grant of Rs. 9,000 to enable the Vice-President to complete the surface drainage of a small section of Black Town as an experimental measure indicating the method proposed to be adopted throughout the town.

License Tax.—This was worked under the Assessor and Collector, Mr. Cardozo, with a special establishment. The receipts for the year were Rs. 71,764. The cost of the establishment was Rs. 9,650. The collection of this tax for Government throws on the Municipality labor and responsibility without return. The Commissioners can feel but little solicitude regarding the imposition of a tax with the proceeds of which they have nothing to do. It would be a great advantage if the work were transferred to the Collector of Madras who, from his official position, would take an interest in it which cannot be experienced by the Commissioners.

II.—FINANCIAL.

Sanctioned Receipts and Expenditure.—The Receipts during the year were estimated at Rs. 8,42,476, excluding opening balances and suspense accounts, and the actual Receipts were Rs. 8,51,101. The difference arose from the collections of house-tax being Rs. 12,000 below the estimate, though the actual collections were considerably above the average. There was a receipt of Rs. 20,000 being the amount of a loan raised to purchase the Vepery Market. The expenditure was esti-

mated at Rs. 8,53,907, and the actual expenditure was Rs. 8,03,868, exclusive of suspense accounts. This includes Rs. 17,000 advanced for the purchase of the Vepery Market.

The total of the closing balance was Rs. 68,538, not including a sum of Rs. 51,068, collections of Imperial License Tax due to Government.

The year closed, however, with heavy outstanding liabilities due to Government, amounting to Rs. 1,40,703. This has since been reduced to Rs. 1,19,182 as the Government have waived their claim to Rs. 8,788 on account of Contagious Diseases Act, and Rs. 12,733 on account of Quit-rent.

But even thus the liabilities exceed the closing balance by Rs. 50,644, and the Municipal Fund must therefore be regarded as exhibiting a deficit to this amount.

This is a sufficiently unsatisfactory condition of Municipal affairs. It is, however, rendered worse by the fact the recent judicial decisions as to the levy of the Professional Tax will reduce the receipts under that head by Rs. 54,000 per annum. The Government have also by Act VII of 1878 taken power to make a charge against the Municipal Fund on account of Police which may amount to 50 per cent. of the whole, or Rs. 1,10,000 per annum. No charge was however made during 1879.

There thus appears to be no reasonable probability that the Municipal finances will resume a position of equilibrium without the direct intervention of Government.

Water Works Loan.—The amount of this loan was Rs. 14,30,000, of which Rs. 2,57,323 had been paid off by the 2 per cent. Sinking Fund by the end of 1879. The interest payable to Government is Rs. 57,200 per annum at 4 per cent. It is calculated by the Accountant General in a statement checked in this Office that the whole of this loan will be paid off by the year 1900.

Stores.—The value of Stores in hand and received from England during the year was Rs. 90,833. The stores issued were valued at Rs. 42,039, leaving in hand stores valued at Rs. 48,794. There had been no stock-taking for a considerable period, and this work has been ordered for 1880, and since completed.

Workshops.—The amount credited under this head is Rs. 66,493, and the amount debited is Rs. 64,874, showing a balance of Rs. 1,619 in favor of the Workshop.

House Services of Water-supply.—The number of House-services laid on at private expense was 158 during 1879, as compared with 57 during nine months of 1878. The total number of private house-services now amounts to 457. The receipts for making the 158 house-services were Rs. 20,104. This includes a charge of 10 per cent. to pay for the cost of Municipal supervision in carrying out the work.

Auditors' Report.—The points requiring attention in the Auditors' Report are discussed in letters to Government which appear in the Appendix. The first relates to matters of account, the second to an unsettled educational grant, and the third is a report upon a defalcation of Rs. 6,715, effected by a Bill-collector.

III.—COLLECTION OF TAXES.

Tax on Arts, Professions, &c.—The demand for 1879 was Rs. 1,35,633. The average for the previous three years was Rs. 1,31,155. The current collec-

tions were Rs. 77,864, being Rs. 14,711 above the average. The arrears collections were Rs. 34,824. The revenue from this tax has been materially affected by a decision of the High Court on appeal, that persons shall be assessed in each class according as the income from their profession does or does not equal the amount of salary drawn by salaried persons in the same class.

The result of this decision was that 609 persons were assessed in lower classes, and a total of Rs. 19,688 was remitted. As, however, a large number of persons who would have been entitled to benefit under this decision paid their tax without appeal, the loss of revenue during 1879 was comparatively small. In future the annual loss of revenue from this cause will be between fifty and sixty thousand Rupees.

The total number of persons liable to this tax was 8,931. It became necessary to take out summonses against 6,073. Neglect to pay however, and not inability, was the cause, as is shown by the fact that 5,553 of these persons paid up before their case came on for hearing. 151 cases were convicted, and fines to the moderate amount of Rs. 80 levied in addition to the tax. 367 cases stood over chiefly owing to the absence of parties from Madras.

The arrears collected amounted to Rs. 34,824, much in excess of the collections of arrears in previous years. The arrears outstanding at the end of the year were Rs. 46,769, and efforts are being made to secure a clear file during 1880.

Tax on Houses, Buildings and Lands.—This was levied at the maximum rate of 10 per cent.

The total demand was Rs. 3,70,933, being Rs. 3,49,789 current, and Rs. 21,144 arrears. The total collections were Rs. 3,35,739, being Rs. 3,24,868 current, and Rs. 10,870 arrears. Rs. 6,164 have been remitted, and the total arrears still to be collected are Rs. 29,030. Under the new law of 1878 the tax is payable in two half-yearly instalments. As there are over 30,000 taxable premises, the number of notices to pay was 64,163. Great additional work is thrown upon the office by the issue of the bills half-yearly. The number of warrants of distress was 12,489, of which 6,624 were settled before execution, and 4,399 before sale of distrained property.

Payments for Occupation of Municipal Lands.—These realized Rs. 9,710 against Rs. 7,024 in 1878. The outstanding balance is Rs. 3,512.

Water Tax.—This is levied at 4 per cent. of the annual value of houses, buildings and lands. The demand for the year 1879 was Rs. 1,35,824, and the collections were Rs. 1,25,312. The question was raised as to whether water-tax could be levied on property more than 150 yards from a public fountain (Section 211), but the imposition of the tax beyond such limit was upheld by the Magistrates and their view was confirmed by the High Court. As, however, the High Court also held that any person paying such tax was entitled to sue the Municipality if water was not supplied within the prescribed area, it became necessary to limit the levy of the tax during the following year until the Act could be revised.

Lighting Tax.—This is the only tax which is not levied at the maximum rate permitted by law. It is levied at 1¼ per cent. the maximum being 2 per cent., and forms a separate fund which cannot be diverted to any other purpose.

Tax on Vehicles and Animals.—The demand amounted to Rs. 43,595, of which Rs. 42,464 were collected. The demand for 1877-8 was Rs. 42,203.

Tax on Vehicles without Springs.—6,863 carts were registered during the year, against 7,820 in 1878. The number was 6,591 in 1876, rose during the famine in 1877 to 8879, and then began to fall off again. The number now registered is slightly in excess of that for 1876.

Tolls.—These were as usual let out on contract, and realized Rs. 44,200, as against Rs. 40,100 in 1876, Rs. 45,000 in 1877, and Rs. 43,200 for 1878.

Tax on Liquor Shops.—This showed a demand of Rs. 15,100, against Rs. 11,500 in 1878. The increase is due to the higher rate fixed by the Act on shops for the sale of European Liquors. The amount realized was Rs. 13,196 against Rs. 10,457 in 1878.

Miscellaneous Collections.—Of these, fees for licenses for dangerous and offensive trades, markets, &c., realized Rs. 8,686, against Rs. 8,322 in 1878. Municipal ground rents realized Rs. 9,709, against Rs. 7,292 in 1878; Market stall rents Rs. 6,289 against Rs. 9,066 in 1878. Other rents brought in Rs. 14,157 against Rs. 11,946 in 1878. Fines and fees realized Rs. 9,517 against Rs. 8,177 in 1878.

Sewage Farms.—These are at Krishnampett, Triplicane, and D'Mellow's Road. The receipts from hay and grass were Rs. 8,308. The maintenance cost Rs. 6,468, and the rent Rs. 3,182. The rent thus absorbs all the profits and causes a net loss of Rs. 1,342 which must be regarded as a trifling cost for getting rid of the nuisance formerly caused by three of the largest sewers in Madras.

In the Napier Park also sewage is used for irrigation, and the receipts were Rs. 3,311. In the People's Park the receipts from sale of grass were Rs. 4,192. Other miscellaneous receipts amounted to Rs. 14,024.

The receipts and disbursements are as follows :—

	Expended.						Receipts.		
	Cost of working.			Rent.					
	Rs.	A.	P.	Rs.	A.	P.	Rs.	A.	P.
1. Krishnampett	2,141	15	6	2,736	10	4	4,059	15	7
2. Triplicane	1,945	9	6	409	14	7	1,931	3	6
3. D'Mellow's Road	1,660	2	5	...	...	...	2,766	15	6
4. Napier Park	2,198	11	3	200 (Quit Rent.)	0	0	3,311	4	7
5. Egmore	11	4	0	...	...	...	24	2	8

It will thus be seen that these farms would yield a net profit but for the rent paid for Krishnampett and Triplicane.

IV.—PURPOSES OF THE MUNICIPAL ACT.

Education.—The aid to education is given only in the form of result grants for elementary education in poor schools. Three Inspecting Schoolmasters are also maintained. The total cost was Rs. 8,531 against Rs. 9,567 in 1878.

Hospitals and Dispensaries—Rupees 300 were paid as a contribution to the Rev. Dr. Strachan's Dispensary at St. Thomé.

The contribution fixed by Government towards Provincial Funds on account of Government Dispensaries and Hospitals and the Medical College was Rs. 46,047, which, however, could not be paid for want of funds.

Public Health.—Births.—The birth-rate per mille was 41·8, as compared with 37·9 in 1878, 36·2 in 1877, 29·7 in 1876, and 26·2 in 1875.

The increased number is due no doubt partly to a return to the normal condition of the population as the effects of the famine pass away, and partly to improved registration. The registration is probably still incomplete inasmuch as the percentage of male births to female is as 53 to 47 among children born alive—a proportion however which is almost the same as in the preceding year.

The percentage among the different races was as follows :—

	Male.	Female.	Rate per Mille.
Europeans	47·4	52·6	37·9
East Indians	55·3	44·7	33·3
Native Christians ...	50·1	49·9	32·7
Hindus	53·2	46·8	43·9
Mahomedans	52·1	47·9	34·8

The total number of births was 16,629

Deaths.—The death-rate fell during 1879 lower than it had been since 1872. The average of ten years (excluding 1877) was 14,601, while in 1879 the total number was 13,803. This gives a death-rate of 34·7 per mille. The number of deaths among males was very slightly in excess of the number among females, there being 6,929 of the former to 6,874 of the latter. Among Europeans however as is natural owing to the unequal numbers of the sexes, the deaths among males were largely in excess, being 59 males to 29 females.

The deaths from small-pox and fever were above the average, while cholera claimed only 35 against 85 in 1878.

An interesting diagraphic table in the Appendix shows that the maximum of small-pox cases occurred during the minimum of Fever, and vice versâ.

Of the 13,803 deaths, 6,728 or just one-half occurred among children under 12 years. Of the deaths among children, 4,361 occurred among infants under 1 year. It is hard to suppose that a considerable number of these deaths could not have been prevented.

Vaccination.—The total number of cases vaccinated shows a considerable falling off. The total number for 1879 was 21,306 as against 39,376 for 1878. The successful cases were 17,009, the unsuccessful 1,645, while the results of 2,652 cases were unknown. The great decrease in 1879 as compared with 1878 is due to the fact that in 1878 vaccination was carried out in day nurseries and famine camps up to the end of March, by which time 19,249 persons had been vaccinated. During the remaining 9 months of 1878, only 18,127 persons were vaccinated. Making every allowance however, it appears that vaccination somewhat languished during 1879. There is however one feature of improvement in the work of the year, viz., that the number of infants under 1 year that were vaccinated rose to double that of 1878, being 5,907 as compared with 2,642 in

1878. But as the number of births in 1879 was 16,629, the fact remains that 10,722 children born during the year were not vaccinated.

Sanitary Inspection.—Appendix No. IV gives details of the working of the different clauses affecting sanitation.

Conservancy.—The daily removal of rubbish and filth, and the cleansing of surface drains, &c., was carried out by a force of 944 coolies and 359 carts. The carts make two trips in the day. 3,69,779 cart-loads, of which 37,666 were night-soil, were removed during the year.

32 carts were employed for the removal of night-soil only in 2nd, 3rd, and 6th Divisions; that is, Nungumbaukum and Black Town.

The rubbish was chiefly deposited in the following places :—

	No. of cart-loads.
Coorookapettah	35,066
Basin Road	24,349
Brickkiln Road	41,220
Barbers' Bridge	29,424
Cuthevakum Road	3,687
Rubbish Shoot	29,524
Washermanpett Esplanade	18,611
St. Thomé High Road Rubbish Depôt	7,500
Victoria Hotel Grounds	6,326

The main drains of Black Town and Triplicane were cleaned out at a cost of Rs. 381; 456 cubic yards of silt were removed. The cost of the surface cleansing, the most important part of the conservancy and sanitation of the Town, cost Rs. 1,53,653. The receipts from sale of rubbish and night-soil were Rs. 4,982 against Rs. 3,489 in 1878 and Rs. 2,039 in 1877.

Latrines.—There are now in the whole town 129 permanent and 16 temporary latrines. During 1879 no new ones were erected.

Drainage.—The scheme for the surface drainage of Black Town has been under preparation by Mr. Jones, and the details are given in his report appended.

Water Supply.—The supply from the Red Hills Lake was maintained throughout the year except from 6 P. M. April 5th to 5 A. M. April 9th, when the supply was cut off that the channel might be cleared of weeds.

The water was at its lowest on the 31st July when there were still 7 feet of water above the bottom of the lowest pipe. The chief work on the delivery channel was the repair of a slip in the bank 50 feet long. The bed of the channel is badly levelled and extensive cutting would be required to rectify the defects. It will probably become necessary to do this before the channel can be replaced by a main from the lake. The pipes and fountains were kept in order throughout the year. Estimates have been made for scour pipes to clear the mains of snails and silt.

Thirty new hydrants were fixed during the year, 158 extensions of water supply to private houses were effected against 57 in 1878.

The consumption of water was 904,868,750 gallons or 5,362,185 cubic yards, and is estimated to supply 200,000 persons with 12½ gallons per head per day.

Roads.—The expenditure on roads during the year was Rs. 92,415. 48 miles of road were reformed at the rate of Rs. 1,935 per mile. They had lasted, without expenditure by the Municipality, for periods varying from one to ten years, and had been maintained during their period of liability by the contractors. Emergent repairs cost Rs. 19,241 for labour and materials.

Lighting.—The total number of lamps is 1,880.

Public Parks.—Details of the receipts and expenditure on parks will be found in the appendix.

The annual fair took place in December in the People's Park under the management, as before, of a mixed committee, without aid from the Municipal Funds, and attracted vast crowds of people.

Avenues.—The cost under this head was Rs. 3,958. 3755 trees have been watered, and 651 young trees have been planted. On the whole the avenues of new trees are in a flourishing condition.

MUNICIPAL OFFICE,
Madras, 13*th September*, 1880.

A. T. ARUNDEL,
Acting President.

APPENDIX I.

Statement I.—Revenues and Receipts of the Municipal Fund of the City of Madras, during the Calendar year 1879.

	1879. Estimate.						Receipts from January to December 1879.						Total Receipts under Major Heads.		
	Detail of Minor Heads.			Total of Major Heads.			Arrear.			Current.					
	Rs.	A.	P.	Rs.	A.	P.							Rs.	A.	P.
I.—Taxation.															
1. Tax on Arts, &c., (Section 103.)..	1,10,202	0	0				35,019	8	0	77,978	8	0			
Deduct refund...							195	0	0	114	8	0			
							34,824	8	0	77,864	0	0	1,12,688	8	0
2. Tax on Houses, Buildings, and Lands, (Section 119), at 10 per cent.	3,47,781	0	0				13,127	10	5	3,25,841	12	7			
Deduct refund...							1,887	7	8	1,308	2	0			
							11,240	2	9	3,24,533	10	7	3,35,773	13	4
3. Water Tax on Houses, Buildings and Lands, (Section 139), at 4 per cent.	1,27,853	0	0				...	...	...	1,25,840	7	7			
Deduct refund...							...	...	...	480	5	10			
							...	...	...	1,25,360	1	9	1,25,360	1	9
4. Lighting Tax on Houses, Buildings and Lands, (Section 151), at 1½ per cent.	39,369	0	0				...	...	...	39,530	3	10			
Deduct refund...							...	...	...	151	7	10			
							...	...	...	39,378	12	0	39,378	12	0
5. Tax on Vehicles on Springs and Animals, (Section 155.)	43,216	0	0				413	8	0	42,472	8	0			
Deduct refund...							4	8	0	8	0	0			
							409	0	0	42,464	8	0			
Registration of Hack Carriages. ..	897	0	0				...	...	...	896	10	0			
							409	0	0	43,361	2	0	43,770	2	0
6. Tax on Carts and other Vehicles without Springs, (Section 168)...	13,494	0	0				42	12	4	13,722	7	0	13,765	3	4
7. Tolls on Vehicles and Animals entering Municipal limits, (Section 174.)	44,116	0	0				3,600	0	0	40,516	10	8	44,116	10	8
8. Tax upon Places used for the sale of Spirituous and Intoxicating Liquors, (Section 183) ...	13,501	0	0				248	0	0	13,220	0	0	13,468	0	0
9. Fees for Licenses for Dangerous and Offensive Trades, Markets, &c., (Sections 311, 322, 325, 328, 333, 347, 349, 350, 356, 360) ..	8,362	0	0				...	...	...	8,686	14	7	8,686	14	7
Total Income from Taxation...				7,48,791	0	0							7,37,008	1	8
II.—Rents.															
1. Payment for occupation of Municipal Lands, (Section 137) ..	8,048	0	0				...	...	...	9,709	14	1			
2. Esplanade Grazing Rents ...	1,308	0	0				...	...	...	1,559	1	9			
3. Rent of Lands and Buildings not falling under Section 137 ..	3,344	0	0				...	...	..	3,406	9	11			
4. Rent of Cart-stands	1,305	0	0				...	...	...	1,429	8	7			
5. Contract for sale of Firewood, &c., at Burning Grounds ...	137	0	0				...	..	...	212	3	0			
6. Contract for collecting fees at Slaughter Houses.	6,350	0	0				...	...	...	7,550	2	6			
7. Rent of Market Stalls	6,115	0	0				...	...	...	6,289	7	3			
				26,607	0	0							30,156	15	1
III.—Fines and Fees.															
1. Demand and Warrant Fees ...	3,773	0	0				...	...	...	4,191	10	0			
2. Fines Magisterial...	1,300	0	0				...	..	...	1,190	6	0			
3. Do. Departmental on Contractors	4,269	0	0				...	...	...	3,890	14	4			
4. Do. do. on Subordinates	244	0	0	9,586	0	0	...	...	...	245	0	2	9,517	14	6
Carried over...				7,84,984	0	0							7,76,682	15	3

Statement I.—Revenues and Receipts of the Municipal Fund of the City of Madras, during the Calendar year 1879.

	1879. Estimate.						Receipts from January to December 1879.						Total Receipts under Major Heads.		
	Detail of Minor Heads.			Total of Major Heads.			Arrear.			Current.					
	Rs.	A.	P.	Rs.	A.	P.							Rs.	A.	P.
Brought over...				7,84,984	0	0							7,76,682	15	3
IV.—Contributions from Provincial Funds.															
1. Roads	...	...	...	15,058	0	0	...	...	...	15,058	0	0	15,058	0	0
V.—Payments for Services to Individuals.															
1. Laying on Water pipes to Premises and Sundry Services ...	...	...	...	14,000	0	0	...	...	...	9,525	2	10	9,525	2	10
VI.—Miscellaneous.															
1. Proceeds of Sale of Rubbish ...	3,925	0	0							4,877	0	0			
2. Do. Blood at Slaughter Houses	1,100	0	0							1,300	0	0			
3. Sewage Farms (Sale of Hay and Grass)	8,732	0	0							8,308	10	4			
4. People's Park	3,420	0	0							4,192	0	4			
5. Napier Park	3,000	0	0							3,311	4	7			
6. Sale Proceeds of Lands ...	5,647	0	0							5,363	4	9			
7. Sale Proceeds of old Stores ...	1,000	0	0				...	...	...	609	2	1			
8. Other Items	394	0	0				...	...	...	590	10	8			
9. Payments for Water supplied for purposes other than domestic...	1,151	0	0				...	...	...	1,265	14	11			
10. Sundry Receipts Water Works ...	35	0	0				...	...	...	14	0	0			
11. Do. Lighting	30	0	0				...	...	...	3	12	0			
				28,434	0	0							29,835	11	8
Grand Total, Receipts...				8,42,476	0	0	...	...	...				8,31,101	13	9
Opening Balance.	...	...	...	12,753	0	0	...	...	...				*50,840	5	7
Total...	...	...	...	8,55,229	0	0	...	...	...				8,81,942	3	4
Unbudgeted.															
Six Per Cent. Debenture Loan of 1879...										20,000	0	0	20,000	0	0
Total...													9,01,942	3	4
Suspense.															
Stores										42,039	9	6			
Workshops										66,493	0	0			
Deposit Account...										4,302	4	3			
Advances Recovered										9,558	15	10	1,22,393	13	7
Imperial License Tax, Nett													12,981	4	7
Grand Total...				8,55,229	0	0							10,37,317	5	6

* Includes Imperial License Tax Balance, Rs. 38,087-6-7.

APPENDIX I.

Statement II.—Expenditure from Municipal Fund of the City of Madras, during the Calendar year 1879.

	1879. Estimate. Details of Minor Heads.			Totals of Minor Heads.			Totals of Major Heads.			Expenditure from Jan. to Dec. 1879.			Total Expenditure under Major Heads.		
	Rs.	A.	P.	Rs.	A.	P.	Rs.	A.	P.	Rs.	A.	P.	Rs.	A.	P.
Grant I.—(*Public Works.*)															
1. New Works and Improvements.															
(*a*) Buildings	1,700	0	0							796	11	7			
(*b*) Drainage	5,000	0	0							3,038	6	5			
(*c*) Hydrants for Fire Engines...	4,400	0	0							4,447	9	11			
(*d*) Water Works Extension ...	14,000	0	0							13,131	15	2			
				25,100	0	0				21,414	11	1			
2. Maintenance.															
(*a*) Roads	1,15,000	0	0							1,13,521	4	9			
(*b*) Buildings	4,300	0	0							3,751	6	5			
(*c*) Drainage	3,000	0	0							1,704	15	6			
(*d*) Water-supply	8,360	0	0							8,680	7	3			
(*e*) Fences	2,000	0	0							1,516	1	5			
(*f*) Tanks and Wells	400	0	0							31	11	1			
				1,33,060	0	0				1,29,205	14	5			
3. Establishment.				17,492	0	0				17,497	10	3			
4. Tools and Plant.				23,248	0	0				24,340	6	4			
													1,92,458	10	1
Total Grant I...							1,98,900	0	0						
Grant II.—(*Education.*)															
1. Results Grants. ...				5,000	0	0				6,771	12	10			
2. Inspection. ...				1,655	0	0				1,635	0	0			
Municipal Inspectors ...															
3. Contingent, Stationery and Printing				156	0	0				124	0	0			
							6,811	0	0				8,530	12	10
Total Grant II...															
Grant III.—(*Sanitation and Medical Services.*)															
1. Hospitals and Dispensaries															
(*a*) Contributions to Provincial Funds ...	41,862	0	0							81	0	0			
(*b*) Do. St. Thomé Private Dispensary...	300	0	0							300	0	0			
(*c*) Do. to Provincial Funds on account of the Medical College...	4,185	0	0							...	...	...			
				46,347	0	0				381	0	0			
2. Vaccination.															
(*a*) Establishment	3,199	0	0							3,191	5	0			
(*b*) Contingencies	1,494	0	0							1,466	8	2			
				4,693	0	0				4,657	13	2			
3. Registration of Births & Deaths.															
(*a*) Establishment	4,668	0	0							4,504	5	1			
(*b*) Contingencies	1,000	0	0							1,008	12	0			
				5,668	0	0				5,513	1	1			
4. Conservancy.															
(*a*) Establishment	20,541	0	0							20,327	11	9			
(*b*) Hire of Scavengers & Bullocks	1,43,790	0	0							1,35,786	9	10			
(*c*) Hire of Carts	7,604	0	0							7,625	14	8			
(*d*) Conveyance of Night-soil to Manally...	5,518	0	0							5,596	10	1			
(*e*) Covering Rubbish	3,679	0	0							4,172	11	9			
(*f*) Cleaning Main Drains ...	1,900	0	0							128	9	7			
(*g*) Sanding Latrines	1,015	0	0							342	14	4			
(*h*) Killing Dogs...	842	0	0							1,145	1	4			
(*i*) Maintenance of Sewage Farms...	6,780	0	0							6,468	4	9			
(*j*) Rent of do ...	3,253	0	0							3,182	8	11			
Carried over...	1,94,872	0	0	56,708	0	0	2,05,711	0	0	1,84,777	1	0	2,00,989	6	11

Statement II.—Expenditure from Municipal Fund of the City of Madras, during the Calendar year 1879.

	1879. Estimate.									Expenditure from January to Dec. 1879			Total Expenditure under Major Heads.		
	Details of Minor Heads.			Totals of Minor Heads.			Totals of Major Heads.								
	Rs.	A.	P.	Rs.	A.	P.	Rs.	A.	P.	Rs.	A.	P.	Rs.	A.	P.
Brought over...	1,94,872	0	0	56,708	0	0	2,05,711	0	0	1,84,777	1	0	2,00,989	6	11
(*k*) Burial & Burning Grounds...	1,168	0	0							1,144	8	9			
(*l*) Rent of Ground for a Parcherry...	360	0	0							360	0	0			
(*m*) Cleansing of Slaughter-houses	2,199	0	0							2,238	2	11			
(*n*) Opening and closing Main Drains...	844	0	0							715	8	1			
(*o*) Clothing	676	0	0							654	14	0			
(*p*) Contingent Charges ..	6,024	0	0							7,279	5	2			
Screw Pile Drain ...	3,236	0	0							2,489	1	9			
				2,09,379	0	0				1,99,658	9	8			
Total, Grant III...							2,66,087	0	0				2,10,210	7	11
Grant IV.															
1. Lighting.															
(*a*) Maintenance	24,357	0	0							24,431	1	10			
(*b*) Inspection...	960	0	0							958	6	5			
(*c*) Additional Lamps & Sundries.	1,500	0	0							2,051	6	2			
(*d*) New Burners	3,000	0	0							1,130	12	0			
Dynamo Electric Machine and cost of erection...	4,753	0	0							4,842	9	5			
				34,570	0	0				33,414	3	10			
2. Markets.															
(*a*) Establishment	996	0	0							994	7	2			
3. People's Park	13,604	0	0							15,217	13	6			
4. Napier Park	1,820	0	0							2,398	11	3			
5. Watering Roads	6,800	0	0							5,852	15	5			
6. Avenues	4,300	0	0							3,958	7	1			
7. Fire Engines	1,440	0	0							1,345	14	7			
				28,960	0	0				29,768	5	0			
Total, Grant IV...							63,530	0	0				63,182	8	10
Grant V.															
1. Salaries				40,750	0	0				40,400	0	0			
2. Head Office Establishment ...				11,418	0	0				11,390	1	7			
3. Assessment and Collection															
(*a*) Establishment	37,450	0	0							36,816	8	10			
(*b*) Office Furniture	452	0	0							452	4	0			
(*c*) Commissioners' Fees ...	620	0	0							390	0	0			
(*d*) Extra Clerks and Coolies ...	1,790	0	0							1,901	15	10			
(*e*) New Carts	400	0	0							400	0	0			
				40,712	0	0				39,960	12	8			
4. Miscellaneous.															
(*a*) Stationery	4,218	0	0							3,781	7	6			
(*b*) Printing Charges	7,221	0	0							8,377	3	9			
(*c*) Advertising Charges ...	4,223	0	0							5,655	11	6			
(*d*) Law charges & Stamp Duties.	3,500	0	0							1,109	10	0			
(*e*) Insurance on Office Premises.	125	0	0							125	0	0			
(*f*) Office Furniture	121	0	0							135	10	4			
(*g*) Contingent	2,000	0	0							1,901	2	7			
(*h*) Water Works Contingent ...	416	0	0							504	12	0			
				21,824	0	0				21,590	9	8			
Total, Grant V...							1,14,704	0	0				1,13,341	7	11
Grant VI.															
Pensions				2,782	0	0							...	...	...
Total, Grant VI...							2,782	0	0				2,767	13	7
Carried over...							6,52,814	0	0				5,90,491	13	2

Statement II.—Expenditure from Municipal Fund of the City of Madras, during the Calendar year 1879.

	1879. Estimate. Details of Minor Heads.			1879. Estimate. Totals of Minor Heads.			1879. Estimate. Totals of Major Heads.			Expenditure from January to Dec. 1879.			Total Expenditure under Major Heads.		
	Rs.	A.	P.	Rs.	A.	P.	Rs.	A.	P.	Rs.	A.	P.	Rs.	A.	P.
Brought over...							6,52,314	0	0				5,90,491	13	2
Repayment of Debt.															
Sinking Fund—W. W. Loan				28,600	0	0				14,222	5	10			
Interest on Debt.															
Interest on W. W. Loan ...				57,200	0	0				28,444	11	10			
Payment for Red Hills Water ...				6,000	0	0				...	...	...			
Arrears				1,09,293	0	0				1,09,549	15	7			
							2,01,093	0	0				1,52,217	1	3
Grand Total, Expenditure...							8,53,907	0	0				7,42,708	14	5
Unbudgeted.															
Election Charges										1,597	8	8			
Arrears due to Contractors, &c...										42,561	11	7			
Advanced on account of Choolay Market...										17,000	0	0			
													61,159	4	3
Suspense.															
													8,03,868	2	8
Stores										42,252	5	2			
Workshops										64,874	4	5			
Embezzlement by a Conicopillay										6,715	5	1			
													1,13,841	14	8
													9,17,710	1	4
Closing Balance. General Fund ...										*99,061	10	7			
Closing Balance. Water Works do ...							1,322	0	0	18,363	13	3			
Closing Balance. Lighting do ...										2,181	12	4			
													1,19,607	4	2
Total...							8,55,229	0	0				10,37,317	5	6

* Includes Imperial License Tax Balance, Rs. 51,068 11 2.

L. R. BURROWS,
President, Municipal Commission.

W. H. AXELBY,
Manager and Book-keeper.

Examined and found correct.

EDWARD J. FIRTH,
C. HALL, } *Auditors.*

Report on Municipal Accounts for the year ending 31*st December* 1879.

From Messrs. E. J. Firth and C. Hall, Auditors, to the President of the Municipal Commission, Madras, dated Madras, 13*th April* 1880.

We have the honor to state, for the information of the Municipal Commissioners, that we have carefully examined the Municipal Accounts for the year ended 31st December 1879, and that having compared the expenditure shewn in the Cash Book with the vouchers filed in support of the charges, and traced a percentage of those charges to their appropriate headings in the Ledger, we have been enabled to verify the entries in the Statements (I & II) of Receipts and Expenditure accompanying, regarding which we have a few remarks to offer.

RECEIPTS.

2. The aggregate Receipts of the Municipality during 1879, including the balance at the beginning of the year, are as follows :—

	Rs.	A.	P.
Revenue and Receipts	8,31,101	13	9
Suspense Account	1,22,393	13	7
Debenture Loan	20,000	0	0
Imperial License Tax	12,981	4	7
	9,86,476	15	11
Opening Balance	50,840	5	7
Total...	10,37,317	5	6

3. The first item includes the sum of Rs. 6,715-5-1 collected, but embezzled by a Bill Collector of the Revenue Department—See remarks at paragraph 22 of this Report.

4. The Debenture Loan was raised under Section 208* of the Madras Act V of 1878. The Loan was taken up by five persons in 200 debentures of Rs. 100 each. The premium realized, viz., Rs. 205, has been credited to Deposit Account; but, as all expenses for advertisements and other charges are borne by the Municipal Fund, this Fund should apparently have received the credit.

*Proceedings of Government, Financial Dept., No. 1699 of 5th September 1879.

5. *Imperial License Tax.*—Realizations during the current year on this account amounted to ...Rs. 91,253 2 0

Deduct payment to Collector of Madras...	...	65,127	0	4		
Charges for collection, &c.	...	13,144	13	1		
					78,271	13 5
Net sum credited as Receipts	...	...			12,981	4 7

6. It may be here mentioned that collections on account of this Tax aggregate from its introduction to 31st December 1879 ...Rs. 1,35,613 2 0 and payments as follows :—

To Collector of Madras	...65,127	0	4		
Charges for collection and refunds	...19,417	6	6		
				84,544	6 10
leaving a balance in the hands of the Municipality of Rs...				51,068	11 2

CHARGES.

7. Comprising expenditure both budgeted and unbudgeted for...	...Rs.	8,03,868	2	8	
Suspense Account	„	1,07,126	9	7	
Amount embezzled for eventual recovery	„	6,715	5	1	
		9,17,710	1	4	
leaving a balance at close of the year of...	...	1,19,607	4	2	
Total...		10,37,317	5	6	

8. The sum of Rs. 8,03,868-2-8 above, includes arrears aggregating ... ...Rs. 1,52,111 11 2
Budgeted for being liabilities to Government ... „ 1,09,549 15 7
Unbudgeted arrears due to Contractors, &c. ... „ 42,561 11 7
which should have been shewn under their proper heads of account.

9. These charges appertaining to previous years, when separate accounts of Water Works and Lighting were not maintained, have, with the exception of Rs. 43,509-6-5, due 31st December 1878, and which under ordinary circumstances would not have been paid until the following January, been taken against the General Fund. A Statement marked *A*, shewing the heads of account to which they are chargeable accompanies.

10. No payment should, on the ground of there not being provision for it in the Budget, be excluded from its proper head of account. Grants should be provided for such charges in the Regular Estimate.

11. Statement *B* annexed, shews Receipts and Expenditure of the General, Water Works, and Lighting Funds. It was necessary to make a temporary transfer of Rs. 22,000 from the General to the Water Works Fund, which accounts for the latter closing with a credit balance of Rs. 18,363-13-3, instead of a deficit of Rs. 3,636-2-9.

12. Appendix *C* is a Statement of Liabilities amounting to Rs. 1,40,703-11-2 which had not been met during the year, but which find no place in the Municipal Books.

13. A register of all such liabilities as they fall due should be maintained, in which adjustments might be noted. The Standing Committee might be kept advised of such liabilities by a foot-note appended to the monthly abstract submitted to it.

14. The Assets and Liabilities of the Municipal Fund which are shewn on its books will be found in Statement *D* annexed. This statement is not complete inasmuch as, though the amount of the Sinking Fund which is to repay the Water Works Loan is exhibited as an asset, the loan itself is not shewn as a liability. Acknowledged liabilities outstanding at the close of the year should be adjusted by credit to a head which might be termed "Acknowledged dues," or "Bills Payable," and debit to Municipal Funds, these heads being relieved whenever payment is actually made. There is also an asset of Rs. 22,697-8-0 under office premises + Rs. 17,000 for the recent purchase of the Smithfield Market, and it may fairly be assumed that the Municipality is possessed of other property, for which, at some time or another, payment has been made from its funds, and which after valuation might be brought on its accounts.

15. There is a sum of Rs. 18,083-15-2 on the Municipal Books to the credit of "Government Grant towards Elementary Education." In G. O., Financial, No. 972 of the 11th July 1873, a grant of Rs. 23,000 was made to the Municipality on an estimate of Rs. 33,000, the Municipality making provision for the balance, viz., Rs. 10,000. It is, however, apparent from G. O., Financial Department, No. 1683 of the 20th November 1873, that a mistake was made in the estimate, as, in para. 3 of the Order, the grant was limited to the difference between Rs. 10,000 provided for by the Municipality and the actual grants which amounted to Rs. 14,916-0-10, or Rs. 2,619-5-2 more than that spent by the State in 1872-73—Vide G. O., Financial, No. 758 of 2nd May 1874, in which Order, the Government determined that their grant for 1873-74 was not to exceed Rs. 10,000, from which it is apparent that the Government quota was Rs. 4,916-0-10.

16. In the Minutes of Proceedings of a General Meeting of the Municipal Commissioners, published in the Supplement of the *Fort Saint George Gazette* of the 17th June 1879, allusion is made to this surplus, but the matter does not appear to have been brought prominently to the notice of Government with a view to their orders being taken as to the disposal of the same.

STORES.

17. As the stock-taking has not been completed, we have not been able to verify the value of the stores shewn in the books.

18. It has already been suggested (*vide* report for the first half-year of 1879) that the Receipts and Issues should be gotten out on a monthly basis. Two forms of Statements of Receipts and Issues, to be maintained in the Store Department are appended for adoption, if approved, a fair copy of which, after being totalled and priced, should be forwarded by the Storekeeper monthly to the head office—say by the first week of the month succeeding that to which the statements appertain. The monthly results only should be posted in the Store Ledger. The Storekeeper should have nothing to do with cash, he should merely deal with quantities valued periodically by such officer as the President may depute to do this part of the work.

19. The actual cost of the stores should be debited on payment, the difference between which and the Storekeeper's value as given in the monthly tabular statement, should be adjusted to the debit of stores and credit of Miscellaneous, or *vice versâ*.

20. The foregoing observations apply only to serviceable stores. Stores either unserviceable or repairable should be separately treated. They may be recorded in a separate register and posted in quantities only in the Ledger under the columns headed "Repairable" and "Unserviceable." The latter, when sold or otherwise disposed of, may be struck off the Ledger, and the proceeds remitted to the Office to be dealt with as at present. Articles issued for repair may also be struck off, and when returned repaired, be re-entered at the standard value. The cost of repair will come on the books through the workshop accounts, the difference between which and the standard value being adjusted on receipt of the Storekeeper's monthly abstract.

21. From the commencement of the current year the mode of indenting has been changed. Hitherto indents had been prepared in triplicate, one copy, or counterfoil, being retained by the Indenting Department, a second, receipted, lodged with the Storekeeper, and a third sent by him to the Office in support of the debit in his accounts. Now the indent is in duplicate, one being retained by the Indenting Department, and the other by the Storekeeper, who, in lieu of the third copy as before, prepares a forwarding note in duplicate, of which he retains a copy, and after getting the second receipted by the receiving Department forwards it to the Office in support of the debit in his books. It is evident that the system now in force entails additional scriptory labor without apparently any counterbalancing advantages, and we would recommend, in the absence of any strong objection to the contrary, that the original mode of indenting be reverted to, an additional column being opened in the indent for values.

DEFALCATION.

22. Mention has been made in para. 3 of this report of a sum of Rs. 6,715-5-1 embezzled by a Bill Collector in the employ of the Municipality, collections of which, the above amount is a portion, appertained chiefly to House, Water, and Lighting Taxes, which, a reference to the Statement of Receipts and Expenditure for 1879 shews, aggregated Rs. 5,00,512-11-1, a considerable portion of which was collected by 27 Conicopillays, on a salary of Rs. 12 per mensem, and who could not therefore be expected to find a larger security than Rs. 1,000, which, it is understood, is the sum demanded in each case.

23. The system of recording the amount due and realized on account of Taxation, would not appear to be defective, but it is clear that the number and amount of the bills entrusted to each collector far exceeds, and necessarily so, the amount of the security taken from him, and it is stated that were it not so, collections would be greatly retarded; such being the case, the examination of the bills entrusted to collectors cannot be too frequent, or the scrutiny too searching.

24. At present, the examination appears to be confined to counting the bills tendered, and agreeing the total with that standing against the Bill Collector in the account opened in his name. This mere counting has proved to be no safeguard, for, in the search made in the house of the defaulting Bill Collector, a large number of bills were found which had been discharged by the payees and the amounts brought to account. It is assumed that these bills were kept by the collector to be substituted, when occasion offered, for bills the amounts of which he had collected and retained. The remedy for this state of things is apparently to compare a percentage of the bills with the register to see if the amount covered by them is actually outstanding. It would also be desirable to call in and make a list of outstanding bills at least once a year for comparison with the Bill Registers.

25. In conclusion, we have a few remarks to offer on the suggestions contained above, and their bearing upon those made in the Auditors' report on the accounts for the 1st half-year of 1879, and the remarks of the Municipal President thereon published in the Orders of Government as per margin.*

* No. 1809 of the 20th Sept. 1879, No. 2297 of 6th Dec. 1879.

26. The adjustment of arrear charges to their proper heads of account which is now being done, the opening of a register in which to record liabilities and their adjustment, the inclusion of such liabilities in a foot-note in the monthly abstract of accounts submitted to the Standing Committee, and the preparation and submission to the Committee of an half-yearly Statement of Assets and Liabilities will, we are of opinion, meet the requirements of the report on the accounts for the first half year of 1879, paras. 3 to 11, and paras. 2 to 7 of the Municipal President's remarks on the same, (we are prepared to accept the suggestion that the workshop accounts be balanced and closed every other, instead of every month) and obviate the necessity of any further modification of the Statement of Receipts and Expenditure. See our remarks in letter to Government of the 20th November 1879, published in Proceedings of Government, No. 2297 of the 6th December 1879.

Para. 13 of this Report.

27. Paras. 8 to 11 of the President's remarks are dealt with, in our suggestions headed "Stores," para. 17 of this report.

28. By carrying arrear charges which have hitherto appeared under separate* heads of "Arrears" budgeted for, and "Arrears due to contractors" unbudgeted for, at once† to their proper heads of account, and providing for charges in excess of Budget Grants in the Regular Estimate, the irregularities commented upon in paras. 14 to 17 of the President's remarks will be avoided, and the Statement of Receipts and Expenditure submitted to the Standing Committee with the foot note already referred‡ to, will represent more closely the financial position of the Municipality at any given time. The arrangement of arrear charges of 1878 under Budget heads (para. 15 of the President's remarks) will be found in the Statement *A* annexed. The President, in remarking that the payment of arrear charges merely displaces an equal amount which will have to be paid out of the next year's receipts, and that "if precautions are taken to prevent payments on account of arrears exceeding in the aggregate the savings out of the previous year's Budget Grants there is a safe check," appears to have lost sight of the fact that the amount of the Budget Grant of any year lapses with that year, and that if arrears are finally charged as such, instead of being carried to their proper head of account, the accounts are robbed of their value as statistics.

* Para. 8 of this Report.

† Para. 10 of this Report.

‡ Para. 26 of this Report.

Para. 14, Clause 3.

Para. 16.

29. The suggestions in the Auditors' report on the accounts for the first half year of 1879, para. 28, Clause *c*, have more direct reference to bills for work on estimates, and should be adhered to in such cases; with reference, however, to bills of the nature alluded to by the President, it will be sufficient if they are enfaced with the amount of any deduction made from them, as is now done on the counterfoil of the cheque. It is here remarked that payments now treated as advances to contractors might apparently, without inconvenience, be treated as charges and carried at once to their appropriate head of account, and "advances recoverable" be proportionately relieved.

Para. 19 of the President's remarks.

Para. 20 of the President's remarks.

30. Payments to coolies, &c., are now made by the Office in the particular branch to which the work performed appertains.

31. In conclusion, we have much pleasure in acknowledging that our work has been considerably lightened by the hearty co-operation and assistance we have received from the officers of the Municipality, very especially from the Head Accountant, Mr. Axelby, whose accounts are neatly and accurately kept, and though the closing entries and final adjustments were not complete until some little time after the six weeks proposed to be allowed for the closing of the accounts of the Municipality, there is no reason to anticipate any such delay in future.

Para. 29 of the Auditors' report on the accounts for 1878.

Copy of the above forwarded to the Secretary to Government, Financial Department, in accordance with clause 97 of the Act.

We have the honor to be,

Sir,

Your most obedient Servants,

EDWARD J. FIRTH,
C. HALL, } *Auditors.*

ORDER THEREON, 19TH JUNE 1880, No. 1,204.

Communicated to the Accountant General. The Government await the President's remarks on the report, especially on paragraphs 16, 17 to 21, and 25 to 29.

2. It should be explained how there remained a net amount, to be carried to the credit of the Municipality, of Rs. 12,981 on account of the License Tax, when the actual cost of the establishment has been far in excess of the 10 per cent. ordered by Government. The finally settled demand must have formed the basis of the amount paid to Government; the only deduction to be made from it being the 10 per cent. commission—*vide* G. O., 27th September 1879, No. 1936, Revenue Department. It should be stated why out of a total collection of Rs. 91,253, only Rs. 65,127 were paid to Government.

3. The Government desire to have a separate report on the defalcation referred to in paragraphs 22 to 24. The facts briefly recounted by the Auditors reveal a very unsatisfactory state of things calling for speedy remedy. The establishment charges are very heavy, and if efficiency of work has not been attained, it must probably be the fault of the system. The Acting President will report when the defalcation took place and what steps have been taken to trace it to its source.

(True Extract)

E. GIBSON,

Acting Under Secretary to Government.

A

Statement showing the Establishment and Expenditure of the Municipal Fund of the City of Madras, current and arrear, under the proper heads.

	Estimate.						Expenditure from January to December 1879.					
	Total Minor head.			Total Major head.			Total Minor head.			Total Major head.		
	Rs.	A.	P.	Rs.	A.	P.	Rs.	A.	P.	Rs.	A.	P.
Grant I.—(*Public Works*).												
1. New Works and Improvements	25,100	0	0				21,414	11	1			
Arrears	...	...	...				4,074	4	3			
2. Maintenance	1,33,060	0	0				1,29,205	14	5			
Arrears	...	...	...				14,737	0	7			
3. Establishment	17,492	0	0				17,497	10	3			
4. Tools and Plant	23,248	0	0				24,340	6	4			
Arrears	...	...	..				2,059	5	0			
				1,98,900	0	0				2,13,329	3	11
Grant II.—(*Education*).												
1. Results Grants	5,000	0	0				6,771	12	10			
2. Inspection	1,655	0	0				1,635	0	0			
3. Contingent, Stationery and Printing	156	0	0				124	0	0			
				6,811	0	0				8,530	12	10
Grant III.—(*Sanitation and Medical Services*).												
1. Hospitals and Dispensaries	46,347	0	0				331	0	0			
Arrears	57,953	0	0				57,953	4	0			
2. Vaccination	4,693	0	0				4,657	13	2			
Arrears	...	...	...				200	0	0			
3. Registration of Births and Deaths	5,668	0	0				5,513	1	1			
4. Conservancy	2,09,379	0	0				1,99,658	9	8			
Arrears	...	...	...				9,677	15	3			
				3,24,040	0	0				2,78,041	11	0
Grant IV.												
1. Lighting	34,570	0	0				33,414	3	10			
Arrears	...	...	...				5,286	7	2			
2. Markets, &c...	28,960	0	0				29,768	5	0			
Arrears	...	...	...				3,705	10	6			
				63,580	0	0				72,124	10	6
Grant V.												
1. Salaries	40,750	0	0				40,400	0	0			
2. Head Office Establishment	11,418	0	0				11,390	1	7			
3. Assessment and Collection	40,712	0	0				39,960	12	8			
Arrears	...	...	...				95	8	0			
4. Miscellaneous	21,824	0	0				21,590	9	8			
Arrears	...	...	...				2,771	8	10			
				1,14,704	0	0				1,16,208	8	9
Grant VI.												
Pensions	2,782	0	0				2,767	13	7			
Arrears	...	...	...				4	0	0			
				2,782	0	0				2,771	13	7
Repayment of Debt (Sinking Fund, W. W. Loan)...	28,600	0	0				14,222	5	10			
Arrears	17,113	0	0				17,198	14	6			
Interest on Debt (Interest on W. W. Loan) ...	57,200	0	0				28,444	11	10			
Arrears	34,227	0	0				34,397	13	1			
Payment for Red Hills Water	6,000	0	0				...	...	...			
				1,43,140	0	0				94,263	13	8
Unbudgeted.												
Election Charges	...	...	...				1,597	8	8			
Advanced on account of Choolay Market ...	...	...	...				17,000	0	0			
				...	...	...				18,597	8	8
Total...				8,53,907	0	0				8,03,868	2	8

EDWARD J. FIRTH,
C. HALL, } *Auditors.*

B

Abstract Statement of Receipts and Expenditure of the Municipal Fund of the City of Madras for 1879, *under General, Water Works, and Lighting Funds.*

Revenues and Receipts.	General Fund.			Water Works Fund.			Lighting Fund.			Total.		
	Rs.	A.	P.	Rs.	A.	P.	Rs.	A.	P.	Rs.	A.	P.
1. Taxation ..	5,72,269	3	11	1,25,360	1	9	39,378	12	0	7,37,008	1	8
2. Rents ..	30,156	15	1	...	...	...	...	...	...	30,156	15	1
3. Fines and Fees ..	9,088	8	9	...	...	...	429	5	9	9,517	14	6
4. Contributions ..	15,058	0	0	...	...	...	...	...	...	15,058	0	0
5. Payments for services to individuals ..	9,525	2	10	...	...	...	...	...	...	9,525	2	10
6. Miscellaneous ..	28,552	0	9	1,279	14	11	3	12	0	29,835	11	8
Unbudgeted ..	20,000	0	0	..	...	...	...	...	...	20,000	0	0
Suspense ..	1,22,393	13	7	...	...	...	...	...	...	1,22,393	13	7
License Tax ...	12,981	4	7	...	...	...	...	...	...	12,981	4	7
Balance ...	50,840	5	7	...	...	...	...	...	...	50,840	5	7
	8,70,865	7	1	1,26,640	0	8	39,811	13	9	10,37,317	5	6

Expenditure.	General Fund.			Water Works Fund.			Lighting Fund.			Total.		
	Rs.	A.	P.	Rs.	A.	P.	Rs.	A.	P.	Rs.	A.	P.
1. Public Works ..	1,50,595	1	7	41,863	8	6	...	...	...	1,92,458	10	1
2. Education ..	8,530	12	10	...	...	...	...	...	...	8,530	12	10
3. Sanitation and Medical Services ..	2,10,210	7	11	...	...	...	...	...	...	2,10,210	7	11
4. Lighting ..	29,768	5	0	...	...	..	33,414	3	10	63,182	8	10
5. Salaries ..	1,09,165	11	11	504	12	0	3,671	0	0	1,13,341	7	11
6. Pensions ..	2,767	13	7	...	..	...	...	...	...	2,767	13	7
Repayment of Debt	66,040	9	2	86,176	8	1	...	...	..	1,52,217	1	3
Unbudgeted ...	61,159	4	3	...	...	...	...	...	...	61,159	4	3
Suspense ...	1,11,565	10	3	1,731	6	10	544	13	7	1,13,841	14	8
Balance ...	1,21,061	10	7	—3,636	2	9	2,181	12	4	1,19,607	4	2
	8,70,865	7	1	1,26,640	0	8	39,811	13	9	10,37,317	5	6
Balance on 31st Dec. 1879 brought down...	1,21,061	10	7	— 3,636	2	9	2,181	12	4	1,19,607	4	2
Transferred from Genl. to Water Works Fund	— 22,000	0	0	22,000	0	0	..	..	..	...	...	...
	99,061	10	7	18,363	13	3	2,181	12	4	1,19,607	4	2

EDWARD J. FIRTH,
C. HALL, } *Auditors.*

C

Unpaid Liabilities to Government.

				Rs.	A.	P.
Interest on Water Works, due 31st December 1879				43,252	9	8
Hospitals and Dispensaries, from January to December 1879				41,700	4	0
Contagious Diseases, for 1879				8,788	0	0
Medical College				4,185	0	0
Red Hills Water, viz.,						
Arrears to 31st December 1878	21,277	13	6			
Do. for 1879	5,500	0	0			
				26,777	13	6
Arrears of Quit Rent per G. O., 20th January 1880, No. 136				16,000	0	0
				1,40,703	11	2

EDWARD J. FIRTH,
C. HALL, } *Auditors.*

D

Statement of Assets and Liabilities of the Madras Municipality for 1879.

Assets.	Amount.			Liabilities.	Amount.		
	Rs.	A.	P.		Rs.	A.	P.
Sinking Fund	2,57,322	10	8	Imperial License Tax ..	51,068	11	2
Workshops	3,579	8	10	Six per cent. Debenture Loan of 1879	20,000	0	0
Stores	48,794	2	2	Strand Rents	949	11	11
Advances	2,734	6	6	Electric Light	234	12	1
Smithfield Market	17,000	0	0	Band Fund	48	5	3
Embezzlement by a Bill Collector	6,715	5	1	Composition of Tolls	508	0	0
Office Premises	22,697	8	0	Deposits	4,853	15	0
Bank of Madras	1,19,607	4	2	Government Grant towards Elementary Education	18,083	15	2
					95,747	6	7
				Balance transferred to Municipal Fund	3,82,703	6	10
	4,78,450	13	5		4,78,450	13	5

EDWARD J. FIRTH,
C. HALL, } *Auditors.*

G. No. 442.

MUNICIPAL OFFICE,
MADRAS, 20*th July* 1880.

From

A. T. ARUNDEL, ESQ.,

Acting President, Municipal Commission,

To

THE HON'BLE R. DAVIDSON, C.S.I.,

Chief Secretary to Government, Ootacamund.

SIR,

I have the honor to reply to G. O., No. 1,204, dated 19th June, and will take *seriatim* the different points noted in the Auditors' Report.

2. Referring to para. 4 of the Report, the sum of Rs. 205, premium on debentures, has been credited to the Municipal Fund.

3. *Imperial License Tax.*—With reference to paras. 5 and 6 of the Report, and para. 2 of the G. O., I have the honor to enclose copy of a letter from the Assessor and Collector explaining the matter in detail. The Auditors apparently confined themselves to the books of the General Department and did not separately examine the accounts of the Assessor and Collector. The former give only the lump sums received and expended without distinguishing one year's receipts, refunds, and expenditure, from those of another. The latter details are given in the books of the Assessor and Collector. The detailed report and accounts of 1878 have, however, been reviewed by the Board and Government in G. O., No. 1,587, dated 31st July 1879.

4. Para. 8 of the Report notes that arrears due to Contractors amounting to Rs. 42,561-11-7 were unbudgetted. This was erroneous and will be rectified in the next budget.

5. Para. 10 of the Report. I quite concur with the remark of the Auditors and have directed every payment to be brought to its proper head of account, whether provided for in the budget or not.

6. Paras. 12 and 13 of the Report. The liabilities referred to are arrears of the previous year. All these appear as such in the budget of the current year, which is constantly before the Standing Committee, and a note is made as they are gradually paid off. It would be advantageous, however, to append a foot-note to the monthly statement of receipts and disbursements for the Standing Committee, shewing how the liabilities stand.

7. Para. 14. The amount of the Water Works loan will be entered as a liability as suggested by the Auditors. The Auditors suggest that all "property for which at some time or another payment has been made from (Municipal) funds" should be entered in the list of assets, in the same way as the Office Premises and the Smithfield Market are now entered. Such a list of assets is no doubt included in a theoretically correct system of accounts, but the money value must in a very

large number of cases be a purely imaginary quantity, rendering the nominal results more or less fictitious. Municipal property of almost every kind would have to be entered and valued for the purpose in question. Every public well, tank, reservoir, fountain with all the water-pipes laid throughout the Town, and the delivery channel should be entered and valued, so also roads, streets, and waste-lands on which money has been laid out and which yield rent in case of occupation or encroachment; sewers, drains, and latrines, &c., &c., should appear for similar reasons. The office establishment, already attenuated to the utmost owing to the present financial embarrassments, cannot now undertake this work without the neglect of more practical duties, and I should therefore prefer to postpone the preparation of these lists for the present.

8. Paras. 15 and 16. A separate letter will be addressed to Government on the surplus educational grant referred to.

9. The stock-taking has been a laborious process, and has only just been completed. The two forms of monthly receipts and issues prepared by the Auditors have been adopted and will be forwarded to the head office every month when completed. The Store-keeper since last year has had no cash transactions whatever, but merely enters the prices of the stores he issues according to an approved list. I do not think that it will be well to enter monthly results only in the Store Ledger. The Ledger should show all particulars relating to individual items of stores under each head, so that by reference to it full information can be obtained as to any one item of stores, without searching through the pages of the journal of daily issue and receipt books. For instance, suppose there are twenty issues of two-inch piping in a month, these will be scattered throughout the journal or daily issue book, but will be gathered together in the Ledger, ready for reference if the transaction of any one day be called for. If only the total of the whole twenty transactions be entered in the Ledger, no such information will be available. A further objection is that the quantity of any article in store could never be ascertained from the Ledger at any particular time, but only the amount that *was* in store at the end of the preceding month.

10. The suggestion in para. 19 of the Report will be carried out. It will be better to keep a separate Ledger of repairable articles (para. 20) to avoid the confusion arising from diminished values, and a separate register will be kept of unserviceable articles.

11. After carefully enquiring into the present system of indent referred to in para. 21, I find that its advantages compensate for the slight additional scriptory labor involved. The indent in triplicate with no forwarding note would answer excellently, provided the Store-keeper could invariably supply at once every article indented for. But, as a matter of fact, it often happens that he cannot, and the indent must be returned partly unexecuted. A new indent must then be made out for the lacking articles, and may possibly meet with a similar fate. But under the present system with a duplicate indent, the forwarding note from the Store-keeper takes the place of the triplicate indent that used to be sent to him and returned by him with the articles supplied. In the forwarding note he enters only the articles he can then and there supply. If some articles are wanting, they can be sent afterwards with another forwarding note.

12. Defalcation —para. 22.—A separate report on this matter will be forwarded as desired by Government. I would merely note here that the Conicopillays who collect the House Tax receive Rs. 20, not Rs. 12, per month, and that the periodical examination of the unpaid bills still in the hands of the Conicopillays is not confined to counting them, but they are properly checked off unless the rules on the subject are disobeyed. How the defalcation was possible and was carried out will be explained in the report.

13. Para. 28. As stated in para. 4 of this letter, I concur with the Auditors in considering that arrears should be brought to their proper head of account, and not charged as "arrears" in the Budget. The Budget ought to be a clear representation of actual financial facts.

14. The suggestion in para. 29 will be carried out.

I have the honor to be,

Sir,

Your most obedient Servant,

A. T. ARUNDEL,

Acting President, Municipal Commission.

Enclosure No. 1.

No. 179. LICENSE TAX OFFICE,
MADRAS, *12th July* 1880.

From

J. B. CARDOZO,

Assessor and Collector, Imperial License Tax,

To

A. T. ARUNDEL, Esq.,

Acting President, Madras Municipality.

SIR,

In returning the Order of Government in the Financial Department, No. 1204, dated 19th June 1880, para. 2 of which has been referred to me for report, I have the honor to state that the Auditors have apparently been led into error by confining themselves to the books kept in the General Department and without any reference to this Office.

2. I must premise that the books kept in your Office and those kept here are not a reflex of each other, the General Department simply recording, in lump sums, our daily collections remitted, and our expenditure as incurred, without distinguishing one year's collections, refunds, and expenditure from another; for instance, in para. 5, they set down a sum of Rs. 13,144-13-1 as "charges for collection, &c." This sum being analysed by the light of our accounts stands thus—

	RS.	A.	P.
Charges for Establishment, House Rent, &c., from January to March 1879, collecting 1878 taxes agreeably to Clause 2, Section 20 of Act III of 1878	3,129	14	3
Refunds ordered in 1878, adjusted in 1879	1,175	0	0
Do. do. for 1878 paid in 1879, will be adjusted in 1880	1,255	0	0
Amount appertaining to 1878 alone	5,559	14	3
Charges for Establishment, House Rent, &c., from 1st April to 31st December 1879, collecting 1879 taxes	7,543	14	10
Refunds ordered and paid in 1879	41	0	0
Total...	13,144	13	1

Similarly in specifying the "Realizations during the current year," Rs. 91,253-2-0, the Auditors have included one sum of Rs. 31,344-8-0, which was the amount collected from 1st January to 31st March 1879, but appertaining to the year 1878, and another sum of Fines and Warrant Fees, Rs. 238-2-0, also belonging to the year 1878; but as the collections and expenditure as well as the amount paid into the Treasury to the credit of Government have already been reviewed by the Revenue Board and Government in Order, No. 1587, dated 31st July 1879, it seems unnecessary to pursue the subject further.

3. Turning to para. 6 of the Auditors' Report, I find they are more correct; the result arrived at corresponding with our books. Still it appears necessary to subdivide the items to understand them correctly, viz :—

		RS.	A.	P.
Collections actually made up to the 31st December 1878	... ...	44,360	0	0
Do. for 1878 but collected from January to March 1879	... ...	31,344	8	0
Do. of Warrant fees and fines for 1878 made in 1879	... ...	238	2	0
Do. from 1st April 1879 to 31st December 1879, for the year 1879	...	58,314	8	0
Do. of Warrant fees and fines for 1879	...	1,356	0	0
Aggregate collections	...	1,35,613	2	0
Cost of Establishment, &c., for 1878 up to 31st March 1879	... ...	9,402	7	8
Do. from 1st April to 31st December 1879	...	7,543	14	10
Amount refunded for the year 1878 adjusted in 1879 ...	... ...	1,175	0	0
Do. 1879 up to 31st December 1879	... ...	1,296	0	0
Charges for collection and refunds	... ...	19,417	6	6
Amount paid to the Collector of Madras	...	65,127	0	4
		84,544	6	10
"Leaving a balance in the hands of the Municipality of"	... ...	51,068	11	2
	Total...	1,35,613	2	0

I have the honor to be,
Sir,
Your most obedient Servant,
J. B CARDOZO

ORDER THEREON, 30th August 1880, No. 1649.

Paragraph 3 will be communicated to the Revenue Department.

2. Paragraphs 7, 9, 10, and 11, will be referred to the Auditors of the Madras Municipality for remarks.

3. The Government await the report referred to in paragraph 12. The President's statement that the periodical examination of bills in the hands of the conicopillays is not confined to counting them, but that they are properly checked off unless the rules on the subject are disobeyed, conveys no information as to what the actual practice has been. It should be stated where this has differed from the system prescribed.

(True Extract.)

J. A. DAVIES,
Acting Under Secy. to Govt.

G. No. 441.

MUNICIPAL OFFICE,
MADRAS, 20*th July* 1880.

From

A. T. ARUNDEL, ESQ.,
Acting President, Municipal Commission,

To

THE HON'BLE R. DAVIDSON, C.S.I.,
Chief Secretary to Government, Ootacamund.

With reference to paras. 15 and 16 of the Auditors' Report in G. O., No. 1204, dated 19th June 1880, I have the honor to report as follows :—

2. In G. O., 11th July 1873, No. 972, the Government assuming that the sum required for Educational Grants in the Municipality was Rs. 33,000, and finding that the Commissioners had only allotted Rs. 10,000 in their Budget, sanctioned a special grant of Rs. 23,000, to enable them to meet the demand on account of education in that year.

3. The Commissioners having requested to be informed on what data the estimate of Rs. 33,000 was formed, it was discovered that an error amounting to Rs. 10,000 had crept into the calculation, and the Government then directed that the special grant by Government for the current year should be limited to the difference between Rs. 10,000 and the actual grants.—Vide G. O., 20th November 1873, No. 1683.

4. In G. O., 2nd May 1874, No. 758, the Government again ordered that as the Director of Public Instruction estimates the required expenditure at Rs. 20,000, the special grant must not exceed Rs. 10,000.

5. In the meantime the special grant of Rs. 23,000 sanctioned in the first of the Orders quoted above was received in August 1873.

6. The account now stands as follows :—

Received from Government.....	Rs.	23,000	0	0
Municipal Budget Grant	,,	10,000	0	0
Total...	,,	33,000	0	0
Amount actually expended in 1873-74 ...	,,	14,916	0	10
Balance due to Government.....	,,	18,083	15	2

7. As noted by the Auditors (para. 16 of their Report), the existence of this surplus was alluded to in the Proceedings of the Commissioners, dated the 24th April 1879, and the President drafted a letter on the subject, which however was withheld pending the receipt of the Orders of Government on the budget and was then overlooked. The matter appears also to have escaped the attention of the Accountant General.

8. As regards the disposal of the surplus Rs. 18,083-15-2, I would suggest for the consideration of Government that it may be regarded as contribution to the expenditure on education by the Municipality in subsequent years. Failing this, perhaps the Government would assign a contribution to the following years on the same terms as in 1873-74, viz., the difference between Rs. 10,000 to be provided for education by the Municipality and the actual amount expended. The expenditure on education exceeded Rs. 10,000 in the four following years and no grant was made by Government.

		Expended on education.			
1874-75	Rs.	12,970	2	6	
1875-76	„	14,404	14	10	
1876-77	„	14,168	8	7	
1877-78	„	11,709	5	9	
	„	53,252	15	8	
Deduct Municipal allotment at Rs. 10,000 for 4 years	„	40,000	0	0	
Contribution by Government	„	13,252	15	8	
Then deducting	„	18,083	15	2	surplus grant
	„	13,252	15	8	
Balance due to Government	„	4,830	15	6	

9. In the event of Government directing a refund, it will be necessary to effect a corresponding modification in the Budget which is now before Government.

I have the honor to be,
Sir,
Your most obedient Servant,
A. T. ARUNDEL,
Acting President, Municipal Commission.

ORDER THEREON, 30th August 1880, No. 1647.

The Government waive the claim to a refund, but they require the Municipal Commissioners to apply the amount remitted to educational purposes.

2. The Accountant General will explain how it was that the excess amount drawn and retained by the Municipality was not brought to notice nor recovered by him.

(True Extract.)

J. A. DAVIES,
Acting Under Secy. to Govt.

G. No. 505.

MUNICIPAL OFFICE,
MADRAS, 16*th August* 1880.

From

A. T. ARUNDEL, ESQ.,
Ag. President, Municipal Commission, Madras.

To

THE HON'BLE R. DAVIDSON, C.S.I.,
Chief Secretary to Government, Ootacamund.

SIR,

I have the honor to submit the report called for by Government in G. O., No. 1,204, dated 19th June 1880, upon the embezzlement in the House Tax Department of the Municipality in 1879.

2. The fraud was effected in September 1879 by a Bill-collector or Conicopillay named Lakshman Sing. The amount embezzled was Rupees 6,715-5-1, and the net loss to the Municipality, after deducting Rupees 978-2-8 the amount realized by the sale of Lakshman Sing's security, is Rupees 5,737-2-5.

3. Before detailing the facts of the case it will be as well to note the method of conducting the collections in the House Tax Department.

4. The bills in 1879 were three in number for each house each half-year, viz., for House Tax, Water Tax, and Lighting Tax. As there are over 30,000 taxable houses in the City, the total number of bills to be collected for each half-year was over 90,000.

5. The collection of these taxes is entrusted to 27 Bill-collectors or Conicopillays, who receive a monthly salary of Rupees 20 each, and who have each deposited security to the value of Rupees 1,000 for the proper discharge of their duties.

6. Besides the bills, (which are receipts for the amount of tax to be paid), a notice is issued to each householder informing him of the amount due by him, and this amount can either be paid to the Conicopillay who should then give the receipted bill in exchange, or can be paid at the Municipal Office where a temporary receipt is given till the proper receipted bill can be given by the Conicopillay who holds it.

7. When the receipted bills for the half-year, consecutively numbered, have been prepared in the Office, they are issued in batches of 200 or more at a time to the Conicopillays, a strict account being kept of the bills issued to each Conicopillay.

8. The Conicopillay then begins his work of collection, and on receipt of the tax due from any house-owner is bound to deliver the receipted bill in return.

9. If the Conicopillay neglects this part of his duty and the house-owner fails to demand the receipted bill, an opportunity of fraud at once arises, which cannot be guarded against, and it will be seen later on that this opportunity was freely utilized by Lakshman Sing.

10. Each Conicopillay is bound to visit the Office every day, or if his work lies in the suburbs, every other day, and to pay in the moneys which he has collected, giving at the same time particulars of the bills so paid. Such bills are then noted as settled in the account kept of the bills which had been issued to him.

11. Each Conicopillay had to bring to the Office every day of his attendance all the bills still in his possession. Once a month these bills were checked off one by one by clerks detailed for the work and compared with the account of the bills issued to the Conicopillay and of those bills which had been paid and accounted for by him during the preceding month.

12. It is plain, however, that if the Conicopillay had received payment for any bill without giving the receipted bill to the payer, he could produce this receipted bill in proof that no payment had been made. Such a fraud could not be detected by any examination of books and bills.

13. The examining clerk entered in a book kept for the purpose the result of the examination, and the book was examined by the Superintendent of the Department. Any collusion between the Conicopillay and the examining clerks would also defeat the purpose of the examination and afford facilities for fraud.

14. The rule for the monthly examination of each Conicopillay was seriously neglected during 1879 prior to the fraud. Twenty-five out of twenty-seven Conicopillays were not examined at all until the month of May. Between January and the end of August each Conicopillay should have been examined eight times. As a fact however 27 Conicopillays were examined twice, 21 were examined three times, 8 were examined four times, 2 were examined five times, and none more than five times.

15. The Superintendent of the Department, Ponnusawmi Pillai, is primarily and directly to blame for this neglect of the rules. It is, however, shown that the Office Establishment was barely sufficient for the work, that additional clerks had been budgetted for but disallowed on the reductions ordered by Government in their Order on the Budget for 1879—(G. O., No. 82, Financial Department, dated 18th Jan. 1879.) Mr. Burrows notes that the Vice-President on several occasions asked for an increased staff, which, however, could not be entertained for want of funds.

16. It is further shown that, in order to avoid increased expenditure, the heavy work of conducting the Municipal elections, preparing lists of voters, &c. &c., had been thrown on the House and Trade Tax Departments, already barely adequate for their own proper work.

17. The election work was over by the second week in May, and it was not till then that the monthly examination of the Conicopillays was resumed.

18. To turn now to the case of Lakshman Sing. This Conicopillay appeared for the usual monthly examination on the 19th June, and the result was reported satisfactory, though it was afterwards ascertained that he must then have produced, as unpaid, receipted bills for which he had actually collected the amounts some time before.

19. No further examination of Lakshman Sing was entered in the examination report up to the time he absconded, but it has since been proved that his bills were examined by a clerk named Kistnasawmy Mudali on the 26th August, that serious errors were then discovered, and that the fact of the examination was totally suppressed by Kistnasawmy Mudali until, upon enquiries being instituted after Lakshman Sing's flight, he confessed the truth to the Vice-President.

20. With the view apparently of keeping up a good show and avoiding suspicion, Lakshman Sing was reported by Kistnasawmy Mudali on the 28th August

for neglecting to bring in his bills for the periodical examination and thereby preventing any examination, and Lakshman Sing was accordingly fined by the Superintendent for this neglect.

21. On Friday the 29th August, Lakshman Sing absented himself from Office reporting himself ill. Saturday the 30th and Sunday the 31st were holidays. Monday the 1st September was not his day for attendance to pay in collections. On the 2nd September he sent in a further sick report, followed next day by a sick certificate and an application for ten days' sick leave, which was granted. To avert suspicion he sent payments of collections to the Office on the 2nd, 4th, and 6th September.

22. As he did not appear at Office at the expiry of his leave, enquiries were made, and his relatives stated (September 15th) that he had gone to Trivellore for medical treatment.

23. His house was searched with consent of his family on the 17th, 18th and 19th, and a number of bills were found and secured. On the 23rd September a charge of criminal breach of trust was laid against him before the Magistrate, and on the 25th a further search of the house was made by the Police. A reward of Rs. 1,000 was offered by Mr. Burrows on his own responsibility for the capture and conviction of Lakshman Sing, and this offer has since been adopted and approved by the Commissioners. Up to the present time, however, Lakshman Sing has escaped arrest.

24. It was found that Lakshman Sing kept in his employ two men, Narrainsawmy and Appiah, who collected money and issued the receipted bills on his behalf. One of these men has disappeared, the other Narrainsawmi, has been brought before the Magistrate and released on bail pending further search after the principal offender.

25. At the time Lakshman Sing absconded the number of bills entrusted to him for which he was accountable was 3,833, representing taxes to the amount of Rs. 18,020-5-2.

26. Among the bills discovered in the Conicopillay's house, were 1,121 receipted bills representing Rs. 4,184, which had been collected and paid into the Office by Lakshman Sing. He had, however, kept all these receipted bills in his hands and the tax-payers had quietly paid the demands without taking any receipt whatever. The number of his bills which were missing was 753 for Rs. 5,800-5-1, collected and embezzled.

27. He had also forged a set of three bills for Rs. 915 against the Cutwal Choultry. The amount had actually been paid, and the true bills delivered to the tax-payer on the 16th August, but the forged bill was kept for production at the monthly examination to support the assertion that the amount was still outstanding.

28. In two other cases Lakshman Sing had delivered forged receipts for Rs. 301-15-2 to two householders for payments made on 6th June, retaining the true receipted bills to show at his monthly examination as a proof that the amount had not been paid.

29. Of the total amount embezzled, viz., Rupees 6,715-5-1, the sum of Rs. 2,923-5-4 had been collected before the 29th August when Lakshman Sing

stayed away from Office on the plea of sickness. The remainder was collected afterwards.

30. The absconding Conicopillay, Lakshman Sing, left behind him a letter addressed to the Vice-President of the Revenue Department, implicating the clerk Kistnasawmy Mudali and his father Teruvengada Mudali, a Distraining Inspector. The former was charged by Lakshman Sing with demanding Rs. 100 as a bribe for reporting the examination of the 26th August as correct; and the latter with embezzling certain specified collections. It was asserted that they had been preying upon him and that he had resorted to embezzlement to meet the demands they made.

31. It was satisfactorily proved that the clerk Kistnasawmy Mudali examined Lakshman Sing's bills on the 26th August and suppressed the fact until after the exposé. He was also guilty of falsehood and prevarication during the enquiry. He was dismissed by Mr. Burrows and the decision was upheld by the Standing Committee.

32. The father of this man, Teruvengada Mudali, a Distraining Inspector, a man of 23 years' service, was charged with receiving payments of certain small sums which he embezzled. He was suspended by Mr. Burrows and afterwards dispensed with on reduction of establishment. The charges made against him were supported by several house-owners and by other evidence. The Standing Committee, however, regarded them as not proved, and decided to grant this man a pension. I therefore took the opinion of Messrs. Barclay and Morgan on the case, and the payment of pension will be suspended pending the result of a prosecution which has been instituted with the concurrence of the Standing Committee.

33. There is no doubt that the grave neglect of the rules for the monthly examination of the Conicopillays conduced largely to this unfortunate defalcation. Lakshman Sing was not examined at all in 1879 till June, although the bills for collection were issued at the beginning of the year. If the Superintendent, Ponnusawmi Pillay, had given a proper attention to this matter the examinations throughout the year would have been regular, and by employing different examining clerks on different occasions, collusion would in all probability have been prevented. Lakshman Sing was examined on the 19th June and should have been examined about the same date in July and in August. It was easy to suppress the examination on the 26th August, when the neglect to examine excited no attention, and called forth no remark from the Superintendent.

34. Making all allowance for the additional duties thrown on the Superintendent as explained in para. 16, I considered that his neglect of most important duties could not pass unnoticed, and that he could no longer be retained at the head of the House Tax Department. He was therefore suspended and then reduced to act on probation in a post of less responsibility and less pay.

35. It would have been well if the Vice-President had satisfied himself that the Superintendent was not neglecting the monthly examination of the Conicopillays. The entry of the monthly examinations in a book was a new rule introduced by the Vice-President at the beginning of 1879, and but for this book there would have been nothing to show whether the examinations had been conducted or not. The book, however, was never put before the Vice-President that he might see whether the rules for examination were being attended to.

36. Since the fraud took place arrangements have been made to carry out fortnightly examinations of the Conicopillays. This was proposed by the Vice-President more than a year ago, but fell through from lack of establishment, and is only now being carried out by the employment of extra hands from time to time to assist in the work. As a precaution against forgery and to facilitate examination, the bills are now issued with counterfoils in bound volumes, each bill and counterfoil bearing the same consecutive number. It was resolved by the Standing Committee to require each Conicopillay to furnish personal security of Rs. 3,000 besides the Government paper security of Rs. 1,000, but none of them have been able to do this, and the matter remains in abeyance pending the report of a Committee now sitting to investigate the working of the House Tax Department.

37. The closest check, however, leaves altogether untouched the opening for fraud explained in paras. 9, 12, and 13 which arises from the fact that such large numbers of house-holders pay their taxes to the Conicopillays and do not insist on getting their receipts.

38. The only effectual way of putting a stop to this practice is by insisting upon all payments being made into the Office. The Act does not require or even suggest that collections should be made by the Municipal Officers from door to door. This change would have the further advantage that the out-door establishment could be economically revised, as the duties of the Conicopillays would be reduced to the mere serving of notices and demands ; the execution of warrants being reserved for special men. The Government in G. O., No. 715, dated 7th April 1880, suggested the adoption of this plan, but the Commissioners, when discussing the matter in connection with reductions of expenditure, hesitated to adopt so considerable a change in its entirety. The change might, I think, be effected gradually, beginning with a single selected ward of the Town as an experiment.

I have the honor to be,

Sir,

Your most obedient Servant,

A. T. ARUNDEL,

Acting President, Municipal Commission.

ORDER THEREON, 15th September 1880, No. 1792.

The explanation is by no means satisfactory, though something may be urged on the plea of scanty establishment and press of work. The Vice-President did not exercise an adequate check, though he seems to have recognized the necessity for it in a measure by introducing additional facilities.

2. Mr. Arundel's description of the system seems to show that no step is taken to withdraw from the Conicopillays the receipted bills for demands which have been satisfied by direct payment in the office. These are apparently left with the Conicopillays for delivery to the payer in exchange for the temporary receipt, but this seems an unnecessary complication.

3. The steps which have been taken to issue bills in a series with bound counterfoils is a simple precaution that might have been adopted sooner.

4. It appears to the Government, however, that the collection by Conicopillays is unnecessarily costly, and also especially open to fraud; and that three separate bills each half year for each house are unnecessarily numerous.

5. The ordinary plan in London of issuing only one notice, specifying thereon the several taxes, and the total sum to be paid, might be adopted with advantage. If the period for payment were notified on the notice of demand, and two or three house offices were opened for, say, two months, as well as the Municipal office, for the receipt of money, the taxes might be received irrespective of the collecting Conicopillays. Defaulters would receive notice to pay at the Municipal Office within so many days, failing which they would be proceeded against. By arrangements with the Post Office, the notices might all be served by post, probably at less cost. Under such a system no receipts will be in the hands of Conicopillays.

(True Extract.)

J. A. DAVIES,
Acting Under Secy. to Govt.

APPENDIX II.

GENERAL DEPARTMENT.

COMMISSION.

The first elections of the Municipal Commissioners for the City of Madras under Act V of 1878 were held on the 29th April, and the names of the elected and the nominated Commissioners were notified in the *Fort St. George Gazette*, dated 24th June.

Prior to the 24th June the Commission consisted of:—

OFFICIAL MEMBERS.

L. R. BURROWS, Esq., *President*.
J. A. JONES, Esq., *Vice-President*, Public Works and Conservancy.
M. R. Ry. P. RAMASAWMY CHETTYAR Avargal, *Vice-President*, Revenue.

NON-OFFICIAL MEMBERS.

1st Division.

THE HONORABLE J. G. COLEMAN.
M. R. Ry. P. PONNOOSAWMY CHETTYAR Avargal.
,, N. RAMALINGA PILLAY Avargal.
DR. D. R. THOMPSON, C. I. E.

2nd Division.

M. R. Ry. V. KRISHNAMA CHARIYAR Avargal.
,, P. S. RAMASAWMY MUDALIYAR Avargal.
,, C. V. SASHACHELLA CHETTYAR Avargal.
,, Y. VENKATARAMAYA GARU.

3rd Division.

COWASJI EDULJI, Esq.
M. R. Ry. P. SOMASUNDARAM CHETTYAR Avargal.
,, P. VIJAYARANGA MUDALIYAR Avargal.
,, N. VENKATASOOBOO CHETTYAR Avargal.

4th Division.

CYRUS GRANT, Esq., died 25th March 1879.
M. R. Ry. E. TIRUVENGADAM MUDALIYAR Avargal.

5th Division.

THE COMMISSIONER OF POLICE.
THE HONORABLE V. RAMIENGAR, C.S.I.
M. R. Ry. P. RUNGIAH NAYUDU GARU.
LIEUTENANT J. H. TAYLOR, R.N.R.

6th Division.

G. HAMNETT, Esq.
J. W. HANDLEY, Esq.
B. LOVERY, Esq.
J. P. NICHOLAS, Esq.

7th Division.

ABDUL GHANI KHAN BAHADUR.
MEER HUSSAIN ALLY KHAN, Esq.
DR. MOIDEEN SHARIFF KHAN BAHADOOR.

8th Division.

DR. H. STANBROUGH.

During this period were held two Meetings of the Commissioners, both General, two of the Budget Committee, one of the Water supply Committee, and fourteen of the Standing Committee.

GENERAL DEPARTMENT.

The gentlemen who served on the Standing Committee during the same period were as follow :—

OFFICIAL MEMBERS.

L. R. BURROWS, Esq., *President.*
J. A. JONES, Esq., *Vice-President,* Public Works and Conservancy.
M. R. Ry. P. RAMASAWMY CHETTYAR Avargal, *Vice-President,* Revenue.

NON-OFFICIAL MEMBERS.

THE HONORABLE J. G. COLEMAN.
M. R. Ry. P. VIJAYARANGA MUDALIYAR Avargal.
J. P. NICHOLAS, Esq.
M. R. Ry. V. KRISHNAMA CHARIYAR Avargal.
B. LOVERY, Esq.

From the 24th June the Commission consisted of :—

OFFICIAL MEMBERS.

L. R. BURROWS, Esq., *President.*
J. A. JONES, Esq. *Vice-President,* Public Works and Conservancy.
M. R. Ry. P. RAMASAWMY CHETTYAR Avargal, *Vice-President,* Revenue.

NON-OFFICIAL MEMBERS.

1st Division.

M. R. Ry. C. V. SUNDARAM SASTRIYAR Avargal.
„ C. YETHERAJULU NAYUDU GARU.
THE HONORABLE J. G. COLEMAN.
DR. D. R. THOMPSON, C. I. E.

2nd Division.

M. R. Ry. V. KRISHNAMA CHARIYAR Avargal.
„ V. GANESHA RAO GARU.
„ P. S. RAMASAWMY MUDALIYAR Avargal.
COWASJI EDULJI, Esq.
M. R. Ry. Y. VENKATARAMAYA GARU.

3rd Division.

HAJI MUHAMMUD ABDULLA BATCHA SAHIB BAHADUR.
THE HONORABLE P. MACFADYEN.
M. R. Ry. P. VIJAYARANGA MUDALIYAR Avargal.
A. M. HOOPER, Esq.
M. R. Ry. P. SOMASUNDARAM CHETTYAR Avargal.

4th Division.

B. LOVERY, Esq.
M. R. Ry. DR. DHANAKOTI RAJU.
„ E. TIRUVENGADAM MUDALIYAR Avargal.

5th Division.

THE HONORABLE V. RAMIENGAR, C. S. I.
M. R. Ry. W. S. VENKATARAMANJULU NAYUDU GARU.
ABDUL GHANI KHAN BAHADUR.
LIEUTENANT J. H. TAYLOR, R. N. R.

6th Division.

J. P. NICHOLAS, Esq.
J. H. SPRING BRANSON, Esq.
W. DIGBY, Esq., C. I. E., resigned 27th July 1879.
A. V. D. BEST, Esq., appointed 29th August 1879.
DR. H. STANBROUGH.

APPENDIX II.

GENERAL DEPARTMENT.

7th Division.

AHMED MOIDEEN KHAN BAHADUR, vacated office under Section 27 of the Act.

M. R. Ry. P. RUNGIAH NAYUDU GARU, elected 15th August 1879.

„ G. RAJAGOPAL NAYUDU GARU.

F. ROWLANDSON, Esq.

DR. MOIDEEN SHARIFF KHAN BAHADUR.

8th Division.

THE HONORABLE MIR HUMAYUN JAH BAHADUR.

SIR W. W. ARBUTHNOT, *Bart.*

J. G. FERRAND, Esq.

Since the 24th June there were four General and nine Special Meetings of the Commissioners, and twenty-eight Meetings of the Standing Committee.

Subsequent to the elections the Standing Committee consisted of:—

OFFICIAL MEMBERS.

L. R. BURROWS, ESQ., *President.*

J. A. JONES, ESQ., *Vice-President,* Public Works and Conservancy.

M. R. Ry. P. RAMASAWMY CHETTYAR Avargal, *Vice-President,* Revenue.

NON-OFFICIAL MEMBERS.

THE HONORABLE J. G. COLEMAN.

M. R. Ry. C. V. SUNDARAM SASTRIYAR Avargal, resigned 14th October 1879.

„ P. RUNGIAH NAYUDU GARU, elected 31st October 1879.

„ P. VIJAYARANGA MUDALIYAR Avargal.

„ V. KRISHNAMA CHARIYAR Avargal.

„ Y. VENKATARAMAYA GARU.

GENERAL DEPARTMENT.

The following is a concise abstract of the Receipts and Disbursements in the year, prepared in accordance with the form prescribed by the Government of India.

	Rs.	As.	P.	Rs.	A.	P.
Receipts.						
Balance	50,840	5	7			
Tax on Houses and Lands	3,35,773	13	4			
Water Tax on do.	1,25,360	1	9			
Lighting Tax on do.	39,378	12	0			
Licenses on Trades	1,34,843	6	7			
Taxes on Spring Carriages and Animals, and on Carts and other Vehicles without Springs	57,535	5	4			
Tolls	44,116	10	8			
Total Income from Taxation...	7,37,008	1	8			
Ground and other Rents	80,156	15	1			
Fines and Fees	9,517	14	6			
Miscellaneous	28,569	12	9			
Payments for Municipal services rendered to Individuals and Government—Water-supply, House-services	10,791	1	9			
Grants-in-Aid from Provincial Funds	15,058	0	0			
Total Income of year exluding Balance...	8,31,101	13	9			
Six per cent. Debenture Loan of 1879	20,000	0	0			
Deposits	4,302	4	3			
Advances and Suspenses	1,18,091	9	4			
Imperial License Tax	12,981	4	7			
Total including Balance...				10,37,317	5	6
Disbursements.						
Interest on Debt	62,842	8	11			
Head Office Establishment	91,750	14	3			
Conservancy and Cleaning	1,99,658	9	8			
Registration of Births and Deaths	5,513	1	1			
Lighting	33,414	3	10			
Construction and Maintenance of Roads	1,13,521	4	9			
Watering Roads	5,852	15	6			
Drainage Works	4,743	5	11			
Water-supply	21,812	6	5			
Other Public Works, including Gardens and Sanitary Improvements.	51,956	8	3			
Tools and Plant	24,340	6	4			
Sanitary and Charitable Establishments and Vaccination ...	62,992	1	2			
Education	8,530	12	10			
Miscellaneous	25,955	15	11			
Payment of Debt (Sinking Fund)	31,421	4	4			
Payments for Arrears	42,561	11	7			
Payment on account of the purchase of a Market	17,000	0	0			
Advances and Suspenses	1,13,841	14	8	9,17,710	1	4
Balance at close of year... General Fund 99,061 10 7						
Balance at close of year... Water Works Fund ...18,363 13 3						
Balance at close of year... Lighting do... ... 2,181 12 4						
				1,19,607	4	2

The opening balance in the above Statement, Rs. 50,840-5-7, was the actual cash balance in the Bank; the funds of the Imperial License Tax collected on account of Government (Rs. 38,087-6-7) merged in the same, if separated, left an actual cash balance to the credit of the Municipal Fund of Rs. 12,752-15-0.

The closing balance of Rs. 1,19,607-4-2 as shown in the Statement, is also the cash balance in the Bank; Rs. 51,060-11-2 of the same is to the credit of the Imperial License Tax, and Rs. 68,538-9-0 to the credit of the Municipal Fund.

The income under taxation during the year amounts to Rs. 7,41,996-8-4, the incidence of which, as calculated by the last census data, is Rs. 1-9-10 per head of population.

In this year the Commissioners raised a loan, with the sanction of Government, of Rs. 20,000 on their debentures of Rs. 100 each, running at interest at the rate of six per cent. per annum payable half-yearly, and guaranteeing the re-payment of the debt in thirty years. The object of raising this loan was with the view of purchasing a market, the property of a private individual, situated in a desirable locality, formerly known as the Smithfield Market, thereby giving the Commissioners the means long felt, of suppressing, on sanitary grounds, a private market in the immediate neighbourhood.

The purchase of Smithfield Market was effected for Rs. 18,000, repairs and improvements being done to the same with the remainder of the money.

The competition for the taking up of the debentures did not quite realize anticipations, the result being as follows:—

Debentures.	Amount.	Rate.	Premium.
100	Rs. 10,000	at 2 per cent.	Rs. 200
20	„ 2,000	at ¼ per cent.	„ 5
20	„ 2,000	at par.	0
50	„ 5,000	at par.	0
10	„ 1,000	at par.	0
200	„ 20,000		„ 205

Rs. 205 only being realized as premium.

The three first were taken by parties in the Mofussil, the two latter locally.

The Assets and Liabilities as shown in the books on 31st December 1879, are as follows:—

List of Liabilities or Credit Balances.	Rs.	A.	P.	Rs.	A.	P.	Rs	A.	P.	Rs.	A.	P.
The Municipal Fund										3,32,703	6	10
Imperial License Tax										51,068	11	2
Six per cent. Debenture Loan of 1879										20,000	0	0
Government Grant towards Elementary Education										18,083	15	2
Deposits										4,853	15	0
Strand Rents										949	11	11
Composition of Tolls										508	0	0
Electric Light										234	12	1
Band Fund										48	5	3
List of Assets or Debit Balances.												
Bank of Madras							1,19,607	4	2			
Sinking Fund for the Liquidation of the Water Works Loan							2,57,322	10	8			
Choolay Market							17,000	0	0			
Office Premises							22,697	8	0			
Embezzlement by a Conicopillay							6,715	5	1			
Workshops							3,579	8	10			
Stores							48,794	2	2			
Standing Advances:—												
Manager, General Department	300	0	0									
Storekeeper	100	0	0									
Deputy Inspector of Vaccination	200	0	0									
Superintendent, People's Park	25	0	0									
License Tax Department	10	0	0									
				635	0	0						
Advances Recoverable:—												
Mr. G. H. Smith	31	14	0									
Vice President, Revenue Department	1,113	4	0									
Vice President, Public Works and Conservancy Department	817	6	6									
Storekeeper	85	9	4									
Superintendent, People's Park	50	0	0									
Ramasawmy Pillay	1	4	8									
				2,099	6	6						
							2,734	6	6			
							4,78,450	13	5	4,78,450	13	5

Liabilities.—Of the sum of Rs. 1,79,690-5-1 that stood due to Government at the close of 1878, as follows :—

Balance of Interest on Water Works Loan due 30th June 1878.				7,514	14	4	
Interest do. 31st Dec. 1878.				43,252	9	8	
							50,767 8 0
Unpaid instalments on account of the following :—							
Hospitals, from July 1877 to March 1878	...	...		28,441	8	0	
Do. from April to December 1878	...	...		29,511	12	0	
							57,953 4 0
Contagious Diseases, from July 1877 to March 1878			...	6,591	0	0	
Do. from April to December 1878			...	6,591	0	0	
							13,182 0 0
Arrears on account of Red Hills Water.							
Balance for 1875-76	...	...	...	8,903	14	2	
Do. for 1876-77	...	...	...	5,698	5	1	
Do. for 1877-78	...	...	...	2,304	1	1	
Do. from April to December 1878		..	...	4,371	9	2	
							21,277 13 6
Bills for pumping water at the Red Hills Tank		...	...	22,130	10	3	
Bills for dismantling pump, &c.		...	...	1,082	14	0	
							23,213 8 3
Arrears of Quit Rent (claimed)	...	...	...		...		13,296 3 4
							Rs...1,79,690 5 1

the arrears of interest and unpaid instalments on account of Hospitals, both due up to 31st December 1878, amounting to Rs. 1,08,720-12-0, were paid during the year, the liabilities to Government being thus reduced to Rs. 70,969-9-1. This sum was further reduced, by the Government being pleased to relieve the Municipality with the charge of Rs. 23,213-8-3 on account of the pumping of water at the Red Hills Tank, also Rs. 13,182 due on account of the working of the Contagious Diseases Act, leaving, therefore, as dues of 1878, the arrears on account of Red Hills Water, Rs. 21,277-13-6, and the amount claimed by Government on account of arrears of Quit Rent, Rs. 13,296-3-4, making together Rs. 34,574-0-10.

The liabilities as they stand due to Government at the close of the present year are as follows :—

Hospitals and Dispensaries—							
Contribution for Dispensaries from January to Dec. 1879			.....	41,700	4	0	
Do. for Medical College	do.		.....	4,185	0	0	
Do. for Lock Hospital	do.		.....	8,788	0	0	
							54,673 4 0
Interest on Water Works Loan due 31st December 1879...				...		...	43,252 9 8
On account of Red Hills Water—							
Arrears to 31st December 1878	...	...	...	21,277	13	6	
Do. for 1879	...	...	...	6,000	0	0	
							27,277 13 6
Arrears of Quit Rent (claimed)	...	...	..		...		16,000 0 0
							Rs...1,41,203 11 2

Thus a sum of Rs. 1,41,203-11-2 was due to Government at the close of the year.

A further concession Government have been pleased subsequently to make (G. O. dated 7th April 1880, No. 715) in respect to these outstandings, by waiving their claim of Rs. 8,788, the amount due for Lock Hospital, thereby reducing the liabilities to Rs. 1,32,415-11-2; a further reduction of this amount will also be effected when the item for arrears of Quit Rent is revised.

GENERAL DEPARTMENT.

Water Works Loan.—The following statement shows the amount paid to the Sinking Fund for the liquidation of the loan up to 31st December 1879.

Balance to 31st December 1878.				Receipts during 1879.				Total.				Payments.				Balance				Remarks.
In Government Securities	In Cash.			In Government Securities.	In Cash.			In Government Securities.	In Cash.			In Government Securities.	In Cash.			In Government Securities.	In Cash.			
Rs.	Rs.	A.	P.	Rs.	Rs	A.	P.	Rs.	Rs.	A.	P.		Rs.	A.	P.	Rs.	Rs.	A.	P.	
2,01,600	11,922	7	9	55,600	41,499	0	1	2,57,200	53,421	7	10	...	53,298	13	2	2,57,200	122	10	8	

The amount of the loan is Rs. 14,30,000, bearing interest at six per cent. per annum, four per cent. of which is credited to Government, and two per cent. to a Sinking Fund for the liquidation of the loan.

The payments towards this fund during the year are as follows :—

From Municipal Fund...	31,421	4	4
Interest realized on investment	10,077	11	9
Rupees...	41,499	0	1

The above statement exhibits a sum of Rs. 2,57,322-10-8 paid up in all to the said Fund : of this sum, investments in Government Securities to the extent of Rupees 2,57,200, have been effected ; during the year under review the investments have been Rs. 55,600.

The balance of the loan stands at Rs. 11,72,677-5-4.

Stores.—The following statement shows the transactions under this head during the year :—

	Rs.	A.	P.
Balance from previous year	46,640	4	1
Cost of Stores imported from England	31,795	7	7
Purchase of Stores in Local Market	9,813	15	9
Stores issued and returned	2,584	0	3
	90,833	11	8
Deduct issues	42,039	9	6
Balance	48,794	2	2

Public Parks.—At the People's Park, the year opened with the last day of the Madras Fair of 1878, on the evening of which day, a grand display of fireworks, the cost of which was borne by M. R. Ry. C. V. Cunniah Chetty Garu, took place ; and the year terminated with the first day of the Fair held during the Christmas vacation last year.

People's Park.

Grass and Hay.—513·60 square feet of ground was dug up, manured, and planted with grass roots at a cost of Rs. 397-6-2 ; the income derived from the sale of grass and hay during the year under review amounted to Rs. 2,095-11-1.

Gymnasium.—The gymnasium started last year near the Vepery gate of the Park has been completed.

Electric Light.—This light was introduced into the Park for the first time on the 16th August last, and with a view to meet, to some extent, the cost of its up-keep, it was thought expedient to levy a small fee of annas 2 from each adult desirous of entering the band stand enclosure on the nights the light was used. By this means a sum of Rs. 310-6-0 was realized.

Zoological.—The following additions were made to the Zoological and other collections.

3	Guinea Fowls	presented by	L. R. Burrows, Esq.
1	Turtle	,,	do.
1	Python	,,	do.
2	Common tree Cats	,,	do.
1	Hill Goat	,,	S. Ottman Esq.
1	Fox	,,	Hunter, Esq.
1	Bald-headed Vulture	caught in the Park.	
2	Koels		do.
2	Jackals purchased.		
1	Fox purchased.		
3	Spotted deer born 12th February, 25th March, and 23rd September 1879.		
1	Sambur	,,	24th September 1879.

The Zoological collections yielded an income of Rs. 1,512-0-0 being the rate at which the admission fees had been let out on contract. The use of the Elephant by visitors brought in Rs. 75-9-0, while the fees received from people using the swimming bath amounted to Rs. 176-13-6.

The cage intended for the Bears has been completed.

The Band Stand.—A band played at the Park 3 times a week, the attendance on Saturdays being particularly good. A few members of the Police force were always present on band days to assist in preserving order.

The boats and canoes so largely used by visitors were maintained by a contractor.

The list of the Zoological collection in the Park on the 1st January 1880, and the statement of Receipts and Disbursements for the year 1879 are hereto attached.

ZOOLOGICAL COLLECTION.

No.	English Names.	Scientific Names.
1	Lion	*Felis Leo.*
1	Lioness	
2	Tigers	*Felis Tigris.*
2	Tigresses	
2	Leopards or Cheetahs, male ...	*Felis pardus*
1	Do. do. female ...	
1	Black Panther ...	*Felis pardus (Niger)*
1	Spotted do	*Felis pardus.*
2	Striped Hyænas ...	*Hyæna striata*
2	Common Porcupines ...	*Hystrix leucura.*
2	Bears (Juggler) ...	*Ursus labiatus.*

APPENDIX II.

GENERAL DEPARTMENT.

No.	English Names.	Scientific Names.
1	Malay Bear ...	*Ursus Malayanus*..
1	Rhinoceros ...	*Rhinoceros indicus.*
1	Elephant (Asiatic)	*Elephas indicus.*
16	Rabbits ...	*Lepus cuniculus.*
22	Common Cavy or Guinea Pigs	*Cavia Cobaya.*
1	Jungle Cat ...	*Felis chaus.*
4	Common tree Cats	*Paradoxurus musanga.*
2	Civet Cats ...	*Viverra Malaccensis.*
1	Opossum ...	*Didelphis. Sp ?*
7	White Rats ...	*Mus decumanus (Var albus).*
16	Axis or Spotted Deer	*Axis macalatus.*
1	Rangoon Deer	*Rucervus Duvancelli.*
4	Samburs ...	*Rusa Aristotelis.*
3	Jackals ...	*Canis aureus.*
1	Ratel ...	*Mellivora Indica.*
1	Wild Boar ...	*Sus Indicus.*
1	Sacred Abyssinian Baboon	*Cynocephalus Hamadryas.*
2	Lion-like Monkeys or Wanderoo	*Inuus silenus.*
1	Indian Antelope	*Antilope bezoartica.*
3	Pig-tailed Monkeys	*Macacus nemestrinus.*
1	Ceylon Bonnet Monkey	*Macacus pileatus.*
17	Common Monkeys	*Macacus radiatus.*
1	Antelope ...	*Antilope. Sp ?*
1	Starred Tortoise	*Testudo elegans.*
1	Fox ...	*Vulpes Bengalensis.*
1	Wolf ...	*Canis lupus.*
3	Crocodiles ...	*Crocodilus palustris.*
1	Entellus or Madras Langur	*Presbytis priamus.*
1	Lemur ...	*Loris gracilis.*
2	Kangaroos ...	*Macropus. Sp ?*
1	Wild Dog ...	*Canis dingo.*
2	Hill Goats ...	*Capra hircas.*
1	Python ...	*Python.*
1	Stork ...	*Mycteria Australis.*
1	Ostrich ...	*Struthio camelus.*
1	Eagle ...	*Aquila. Sp ?*
2	Pelicans ...	*Pelecanus onocrotalus.*
3	Pea-Cocks ...	*Pavo cristatus.*
5	Do Hens ...	
3	Jungle Fowls	*Gallus Sonneratii.*
2	Black Swans ...	*Cygnus atratus.*
3	Guinea Fowls	*Numiaa. neleagris.*
16	Malta Pigeons	*Columba. Sp ?*
52	Common Pigeons	*Columba intermedia.*
6	White-headed Pigeons	*Columba. Sp ?*
1	Concal ...	*Centropus rufipennis.*
2	Emu ...	*Dromains Novæ Hollandæ.*
2	Greater Sulphur-crested Cockatoos	*Cacatua Galerita.*
1	Pacific Gull ...	*Larus. Sp ?*
3	Brown-headed Gulls	*Xema brunnicephala.*
1	Heron Common	*Ardea cinerea.*
4	Koels ...	*Eudynamys orientalis.*
1	Partridge ...	*Ortygornis Ponticerianus.*
3	Doves ...	*Turtur. Sp ?*
1	Sarus ...	*Grus antigone.*
1	Bald-headed Vulture	*Otogyps calvus.*
12	Vackas or Night-herons	*Nycticorax griseus.*
1	Black Parrot	*Psittacius. Sp ?*

GENERAL DEPARTMENT.

Statement of Receipts and Disbursements on account of the People's Park, from 1st January to 31st December 1879.

Receipts.	Amount.			Disbursements.	Amount.		
	Rs.	A.	P.		Rs.	A.	P.
Proceeds of sale of hay and grass.	2,095	11	1	Establishment	4,140	12	0
Tiger collection ... Rs. 1,794				Feeding bullocks of the Park	119	2	10
Deduct amount paid in advance in December 1879 ... ... „ 282	1,512	0	0	Carts, candles, &c., for the Band on Band days...	78	14	0
				Cutting and weeding	855	9	10
Swimming bath	176	13	6	Maintenance of Zoological collection and Establishment	5,796	13	3
Elephant	75	9	0	Swimming bath Establishment	24	0	0
Miscellaneous	49	14	9				
				IMPROVEMENTS.			
	3,910	0	4				
Met from the Municipal Fund ...	11,307	13	2	Erecting Bears' cage	649	14	5
				Putting fence for Kangaroos	363	5	4
				„ for Hill goats	44	5	3
				„ round the Band stand	717	12	5
				Repairing wild animals' cages	578	3	3
				„ rails and gates round the Park... ...	352	2	10
				„ well at the rhinoceros' enclosure ...	18	5	10
				„ wooden bridge at the wild animals' enclosure	155	7	3
				„ rails round the wild animals' cages ...	165	9	6
				„ and painting lanterns	29	10	0
				„ hand cart...	18	7	10
				Making a jhool, &c., for howdah for Elephant ...	68	13	8
				Boat hire for bringing Kangaroos, &c.	12	12	0
				Lanterns and burners purchased	85	2	8
				Colored lanterns do.	94	10	6
				Clothing to Serjeants and Peons	108	0	0
				Kerosine oil, &c., for lighting	148	7	0
				Casuarina wood supplied for the Electric lights' Engine	10	0	0
				Ploughing and manuring	397	6	2
				Painting inside of Band stand, seats, and rails round the Band stand, &c.	99	5	6
				Sundries	84	12	2
Total Rupees...	15,217	13	6	Total Rupees....	15,217	13	6

GENERAL DEPARTMENT.

Napier Park.

The formation of a new garden with flower beds and gravel walks near the north gate of the Park was commenced by my predecessor. The ground, however, is not fit for flower beds or avenues, but for grass only.

The two islands named "Band-stand Island" and "Date Island" are much improved. A temporary bridge leading to the latter was built for the convenience of respectable persons living in the neighbourhood of the Park.

The cocoanut tope in the Band-stand Island is let out on contract for toddy, and to preserve the trees from injury.

A portion of the Park has been irrigated with sewage and Red Hills water, and supplies 1,500 lbs. of grass daily. If the remaining area is also irrigated, it will no doubt yield double the quantity, and meet the demands of several applicants for grass, and thus form an additional source of revenue.

In December 1878 there were several kinds of plants in the nursery, most of which have been transplanted in various roads.

At the close of the year 1879 the nursery contained 1,900 young trees of different kinds, besides 400 young Neem, 300 Portio, 150 Asoka, 50 Peepul, 50 Mangoe, and 50 Sumack, all which are intended to meet future demands.

The cattle found trespassing in the Park and impounded were as follows :—

Description of Animals.	No.	Reward.		
		Rs.	A.	P.
Horses ...	15	3	12	0
Cows and Bullocks ...	147	36	12	0
Buffaloes ...	112	28	0	0
Asses ...	25	6	4	0
Goats ...	60	7	8	0
Total...	...	82	4	0

The quantity of grass sold during the year was 199 tons 4 cwts. 5 lbs. for Rupees 2,231-4-7, and of hay 36 tons for Rupees 1,080-0-0.

The quantity of hay which remained in hand was 10 tons 5 cwts. valued Rupees 307-8-0:—

Receipts.

Cash receipts	Rs.	3,311	4 7
Value of hay in stock	,,	307	8 0
Total Rupees...		3,618	12 7

Charges.

Establishment	Rs.	655	1 9
Working Picottah and weeding	,,	746	3 1
Reward for pounding cattle	,,	82	4 0
Manure	,,	30	0 0
Quit Rent	,,	200	0 0
Constructing open drain in Park	,,	86	4 0
Rebuilding old wall of water-cistern	,,	4	8 0
Fixed rails in front of Mr. Green's house situated in Park	,,	109	14 9
Twelve new benches to the Park	,,	72	0 0
Repairing trollies and box carts	,,	326	14 4
Sundries	,,	85	9 4
Total Rupees...		2,398	11 3

GENERAL DEPARTMENT.

Avenues.—The following statement shows the description and number of young trees planted in previous years, and which having been watered and protected throughout the year, remained in good condition at its close with few exceptions:—

Description of Trees.	No.	Locality.
Large-leaf Banyan	177	Popham's Esplanade Road.
Do.	120	Evening Bazaar Road.
Do.	171	China Bazaar Road.
Do.	32	Around Memorial Hall.
Do.	82	General Hospital Road.
Neem	13	Mount Road.
Large-leaf Banyan	508	Do.
Small do.	31	Do.
Asoka	6	Do.
Peepul	3	Do.
Large-leaf Banyan	245	Edward Elliott's Road.
Small do.	111	Do.
Do.	163	Græme's Road.
Large-leaf Banyan	38	College Road.
Tamarind	33	Do.
Peepul	16	Do.
Do.	150	Spur Tank Road.
Do.	200	Pantheon Road.
Do.	165	Harris's Road.
Do.	87	Monteith's Road.
Neem	84	Marshall's Road.
Do.	12	Commander-in-Chief's Road.
Do.	161	Coum Road, Comaleswarenpettah.
Large-leaf Banyan	86	Pycroft's Road.
Peepul	11	Egmore High Road.
Do.	12	Scotch Kirk Road.
Neem	10	Whannel's Road.
Large-leaf Banyan	37	Do.
Neem	4	Binnie's Road.
Do.	36	Madaveram Road.
Do.	50	Wall Tax Road.
Portio	52	Do.
Peepul	50	Do.
Rani trees	59	Nungumbaukum Road.
Neem	74	Bell's Road.
Do.	23	Lying-in Hospital Road.
Asoka	12	Club House Road.
Peepul	2	Do.
Neem	57	Theroovatoor Road.
Large-leaf Banyan	93	Do.
Asoka	62	Do.
Portio	64	Elephant Gate Bridge Road.
Neem	29	Lang's Garden Road.
Do.	76	Wallajah Gate Road.
Do.	76	Do.
Do.	11	Monegar Choultry Road.
Acasia	21	Do.
Neem	61	Male Asylum Road.
Large-leaf Banyan	11	Do.
Portio	22	Wallajah Bridge Road.
Large-leaf Banyan	35	Do.
Total ..	3755	

Of the above, 69 withered in the course of the year and 100 remained at its clos in a very precarious state.

The following is a statement of trees planted during the year :—

Description of Trees.	No.	Locality.
Large-leaf Banyan ...	22	General Hospital Road.
Neem ...	13	Mount Road.
Asoka ...	6	Do.
Neem ...	26	Male Asylum Road.
Do. ...	33	Wall Tax Road.
Portio ...	9	Do.
Do. ...	64	Brickkiln Road.
Neem ...	864	Theroovatoor High Road.
Large-leaf Banyan ...	86	Do.
Asoka ...	62	Do.
Large-leaf Banyan ...	7	Popham's East Road.
Do. ...	1	Evening Bazaar East Road.
Do. ...	2	China Bazaar East Road.
Neem ...	16	Lang's Garden Road.
Do. ...	74	Bell's Road.
Do. ...	76	Wallajah Gate Road.
Total ...	651	

The number of trees conserved by watering and fencing were :—

Those of previous years' planting (minus 86 dried ones)...		3,204
Planted in lieu of dried ones	86	
Additional	465	
	——	551
		3,755

These 551 newly planted trees necessitated the putting up of as many fences of bamboo thorns; and there were, besides, 300 fences either replaced or partially reformed, belonging to old trees.

The following represents expense incurred :—

	Rs.	A.	P.
Inspector's salary ...	600	0	0
Watching Peons and Coolies ...	3,017	13	4
Repairing Water Carts and Trollies	194	12	8
Fencing Materials. ...	85	1	3
Sundries ...	60	11	10
Total Rs...	3,958	7	1

Education.—The Deputy Inspector of Schools reports as follows upon the elementary instruction maintained by the Municipality during the year :—

" The staff of Inspecting Schoolmasters remained the same at the end of the year as at the beginning. The names, salaries, and ranges of these officers are given below :—

Name.	Examination passed.	Salary including batta of Rs. 10.	Range.
		RS. A. P.	
M. Jaffer Hussain Sahib ...	Matriculation.	45 0 0	The whole of the Madras Municipality.
A. V. Parasurama Aiyar ...	Do. ...	45 0 0	Black Town (1st, 2nd, 3rd & 4th Municipal Divns.)
M. A. Janakiram Aiyar ...	Do. ...	45 0 0	Triplicane (5th, 6th, 7th & 8th Municipal Divisions.)

" The new Municipal Act called 'The City of Madras Municipal Act of 1878' came into force on the 1st January 1879. Under the old Act of 1867, or rather under Act V of 1871 amending that Act, all elementary schools in the town used to be aided by the Municipality. In 1875 the Government relieved the corporation of all grants to girls' schools. Up to 31st December 1878 grants were paid by the Municipality to elementary schools for boys only. In the new Act the educational purpose for which Municipal Funds could be appropriated, was directed to be

(1.) Construction and repair of school-houses for the *poor*.

(2.) Elementary instruction of the *poor*.

" It was therefore thought necessary to limit Municipal expenditure to grants on account of the 1st, 2nd, and 3rd Standards of the Results Grant Rules in schools intended for the education of poor boys and girls; and Government undertook to pay from Provincial Funds grants not only on account of the 4th and higher standards in poor schools, but also on account of all standards in schools intended for the education of other than poor boys and girls. Accordingly a list of the poor schools in the town of Madras was prepared by the Educational Department, and approved of by the President of the Municipal Commissioners. The list, however, was not considered perfect, and was liable to be revised as opportunities offered.

" On the 31st December 1879 there were 200 poor schools in the town of Madras under inspection, giving instruction to 7,314 pupils. The different agencies by which these schools were superintended are shewn below :—

Agency.	Number of	
	Schools.	Pupils.
M. Jaffer Hussain Sahib ...	43	1,163
A. V. Parasurama Aiyar ...	56	1,748
M. A. Janakiram Aiyar ...	51	1,596
Mission Agencies ...	50	2,807
Total ...	200	7,314

"These schools and pupils were distributed among the different Municipal Divisions as shewn below :—

Municipal Division.	Number of	
	Schools.	Pupils.
I ...	21	764
II ...	33	1,138
III ...	35	1,319
IV ...	4	165
V ...	35	1,589
VI ...	7	305
VII ...	41	1,327
VIII ...	24	707
Total...	200	7,314

"Of the 200 schools under inspection,

46 taught Tamil.
29 „ Telugu.
18 „ Hindustani.
5 „ English.
6 „ Tamil and Telugu.
37 „ Tamil and English.
5 taught Telugu and English.
29 „ Tamil, Telugu, and English.
24 „ Hindustani and Persian.
1 „ Hindustani, Persian, and Arabic.

"170 of these schools were for boys and the remaining 30 for girls. The number of boys under inspection was 6,285 and that of girls 1,029.

"Classifying the boys according to race or creed there were

3,395 Hindus.
1,218 Mahomedans.
711 Native Christians.
401 Europeans and East Indians.
560 Others.

"Classifying the girls in the same way, there were

275 Hindus.
28 Mahomedans.
259 Native Christians.
104 Europeans and East Indians.
363 Others.

"Of the 200 schools under inspection, 132 were aided, and the remaining 68 unaided. Of the aided schools, 120 were for boys, and 12 for girls.

"The following table shows the numbers of pupils presented for examination and passed under the different standards of the Results Grant Rules :—

IV.		III.		II.		I.		Total.	
Presented.	Passed.	Presented.	Passed.	Presented.	Passed.	Presented.	Passed.	Presented.	Passed.
191	157	553	418	823	600	933	741	2,500	1,916

"The total amount of grant passed in aid of these schools was Rs. 4,816-10-3, of which the sum of Rs. 32-15-0 remained undrawn at the end of the year. Adding

to this the amount drawn during the year on account of examinations held in the previous year, viz., Rs. 1,987-2-8, the sum actually paid by the Municipality in grants to poor schools during the year under report amounted to Rs. 6,770-13-11. The salaries, &c., of the three Inspecting Schoolmasters and contingencies amounted to Rs. 1,759-14-11, making the total expenditure on education incurred by the Municipality during the year 1879, Rs. 8,530-12-10. The amount budgeted for was Rs. 10,000, that is, Rs. 1,469-3-2 more than the actual sum expended."

STATEMENT OF EDUCATIONAL GRANTS PAID TO THE SCHOOLS AIDED BY THE MUNICIPALITY DURING THE YEAR 1879.

Names of Schools.	Division.	Locality.	No. of Pupils Examined.	Amount of Grant.		
				RS.	A.	P.
Abdool Guffoor Saib's ...	2	Black Town ...	11	8	4	0
Adinarayaniah's, V. ...	3	Linghi Chetty Street ...	40	56	9	9
Adiseshiah's, M. ...	2	Seven Wells' Street ...	13	29	6	0
Ananda Vathyar's, P. ...	7	Tiruvataswarampet ...	8	12	14	0
Andrew's, A. ...	5	Pariamet ...	22	41	14	0
Annamalay Mudali's, M. ...	8	Mylapore ...	12	11	2	0
,, ,, ...	,,	do. ...	12	16	6	0
Appiah's, R. ...	2	Govindappa Naick Street.	6	9	1	3
Arimoothoo Naicker's, S. ...	7	Chintadripet ...	17	38	11	0
Arumuga Mudali's, P. ...	8	Mylapore ...	8	8	3	0
,, ,, ...	,,	do. ...	6	7	7	0
Arumuga Mudali's, V. ...	2	Iyah Mudali Street ...	16	28	8	0
Arunachella Pillay's, P. ...	5	Choolay ...	6	14	10	0
Balakistnasawmy Chetty's ...	,,	do. ...	16	23	5	0
Bashiakarliah's, C. ...	2	Veerappen Street ...	31	77	15	9
Catholic Boy's ...	5	Mattukara Veerabudren St.	9	30	8	0
,, Mixed ...	,,	do. ...	6	11	3	6
Chockalinga Chetty's, R. ...	2	Ponnappa Chetty Street ...	23	32	0	0
Church Mission Society's ...	1	Tinnevelly Settlement ...	29	73	8	0
,, ,, ...	,,	do. ...	27	75	10	0
,, ,, ...	,,	Cassimode ...	14	15	5	0
,, ,, ...	,,	Korukupett ...	20	94	5	0
,, ,, ...	,,	Royapooram ...	19	32	5	0
,, ,, ...	,,	Meenatcheammanpett ...	18	34	10	9
,, ,, ...	2	Kondi Tope ...	9	11	10	0
,, ,, ...	,,	do. ...	11	12	2	6
,, ,, ...	,,	Seven Wells' Street ...	24	54	5	0
,, ,, ...	,,	do. ...	34	84	12	0
,, ,, ...	,,	John Pereira's (Jesson's St.)	12	26	15	3
,, ,, ...	,,	Elephant Gate Street ...	4	19	12	0
,, ,, ...	,,	Mint Street ...	5	29	10	0
,, ,, ...	3	Black Town ...	20	35	7	0
,, ,, ...	3	do. ...	21	57	2	0
,, ,, ...	5	Egmore ...	16	25	3	0
,, ,, ...	,,	do. ...	24	34	13	3
,, ,, ...	,,	New Town ...	17	39	2	0
,, ,, ...	,,	do. ...	12	56	0	0
,, ,, ...	,,	Poodoopett ...	46	97	14	3
,, ,, ...	6	Chetput ...	4	2	13	0
,, ,, ...	,,	Kilpauk ...	8	10	12	0
,, ,, ...	,,	do. ...	9	5	6	0
,, ,, ...	,,	Taylor's Road ...	8	13	15	0
,, ,, ...	,,	do. ...	21	46	7	6
,, ,, ...	,,	Thousand Lights ...	41	96	8	0
		Carried over...	735	1,544	5	9

GENERAL DEPARTMENT.

Name of School.	Division.	Locality.	No. of Pupils Examined.	Amount of Grant.		
				RS.	A.	P.
		Brought forward...	734	1,544	5	9
Church Mission Society's ...	7	Chintadripett ...	8	3	10	0
" " ...	"	do. ...	14	28	4	0
" " ...	"	do. Bazaar...	26	53	9	0
" " ...	"	Kaliman Cherry ...	18	25	13	0
" " ...	8	Nellam Parcherry ...	13	3	11	0
" " ...	"	Teynampett ...	15	28	12	3
" " ...	"	Royapett ...	15	12	1	0
Church of Scotland Mission's ...	1	Washermanpett ...	29	59	15	0
Durmalinga Chetty's, P. ...	7	Triplicane ...	22	41	14	0
Ethirajulu Nayudu's, D. ...	5	Pariamet ...	38	58	2	0
Free Church Mission (Poor Boys') ...	2	Portuguese Church Street.	21	59	14	0
" " (Girls') ...	"	do. ..	4	23	2	0
Goolam Jelani Khan Saib's ...	7	Triplicane ..	31	38	8	0
Gungadara Mudali's, T. ...	6	Nungumbaukum ...	20	30	4	0
" " ...	"	Thousand Lights ...	6	6	4	0
Hajee Abdul Azeez's ..	7	Triplicane ...	13	11	12	0
Hamed Saib's ...	"	do. ...	20	61	8	0
Hanuman Singh's, T. ...	5	Pursewalkum ...	20	27	7	0
Hindoo Association ...	2	Govindappa Naick Street...	49	161	10	0
Hindoo Elementary ...	"	Ayloor Moothia Moodly St.	36	72	6	0
Hindoo National ...	"	Varada Moothiappen St. ...	23	43	12	0
Jeyariah's, R. ...	2	Venoyaga Maistry Street...	12	14	0	0
Joseph's, T. ...	1	Tondiarpett ...	11	11	2	0
" ...	"	do. ...	13	9	14	0
Kader Hussain's ...	4	Perambore ...	30	95	4	0
Kader Sheriff's ...	1	Washermanpett ...	9	2	0	0
Kakalu Charla's, P. S. ...	2	Govindappa Naick Street...	8	19	8	0
Kasava Mudali's, C. ...	7	Tiruvataswarampet ...	29	68	11	0
Kristnammah's, D. ...	7	Triplicane ...	12	84	10	0
Kristniah's, P. ...	5	Venitheertha Mudali Street	17	42	12	0
Kristnaramanujiah's, K. ...	2	Reddy Ramen Street ...	7	13	11	0
" " ...	"	do. ...	10	29	0	0
Kristnasawmy Reddy's, P. ...	5	Pariamet ...	15	7	1	0
Kumarasawmy Mudali's, M. C. ...	2	Jagannada Mudali Street...	12	27	8	0
Kumarasawmy Pillay's, C. ...	"	Davaraya Mudali Street ...	8	12	2	0
Kundasawmy Vathyar's, P. ...	8	Mylapore ...	22	24	15	0
" ...	"	do. ...	18	34	9	0
Kuppiah's, R. ...	"	do. ...	12	3	4	0
" ...	"	do. ...	14	12	4	0
Loganada Mudali's, C. ..	5	Pursawalkum ...	9	5	3	0
Lutchmiah's, P. ...	3	Armenian Street ...	8	19	12	0
Lutheran Mission Girls' ...	5	Kundappa Mudali Street...	12	69	10	0
Mahomed Abdool Ally Saib's ...	7	Triplicane ...	21	31	12	0
Mahomed Azeezoodien's ...	3	Moothyalpett ...	17	34	8	0
Mahomed Hamed's Vernacular Mixed	7	Triplicane ...	15	23	0	0
" " ...	"	do. ...	1	7	0	0
Mahomed Omer Saib's ...	7	Triplicane ...	22	50	8	0
Manicka Mudali's, P. ...	5	Choolay ...	37	36	2	0
Maselamoney Mudali's, T. ...	2	Mint Street ...	3	5	10	0
" " ...	"	do. ...	10	15	6	0
Medical Mission ...	1	Royapooram ...	30	61	11	3
Munnajee Row's ...	7	Poodoopaukum ...	12	31	3	0
Munesawmiah's, V. ...	2	Ponnappa Chetty Street ...	13	16	4	0
Munesawmy Pillay's, C. ...	4	Teroopaly Street ...	37	72	5	0
Murugappa Chetty's, K. ...	3	Linghi Chetty Street ...	6	11	3	3
Murugasa Naicker's, C. ...	7	Chintadripett ...	14	26	4	0
" " ...	"	do. ...	20	39	0	0
Nadamooniah's, S. ...	2	Buddriah's Garden ...	9	24	8	0
		Carried over...	1,731	3,489	8	6

GENERAL DEPARTMENT.

Name of School.	Division.	Locality.	No. of Pupils Examined.	Amount of Grant.		
				RS.	A.	P.
		Brought forward ..	1,731	3,489	8	6
Nadamooniah's, T. ...	1	Washermanpett ...	12	9	6	0
Nadamoony Chetty's, A. ...	3	Balakistnan Lane ...	10	19	11	0
Nagaswara Sastry's, P. ...	2	Sawmy Mudali Street ...	12	9	10	0
Narasiah's, T. ...	2	Seven Wells' Street ...	9	19	9	6
Narasimmooloo Nayudu's, C. ...	7	Triplicane ...	16	29	10	0
Narasingapooram Poor ...	,,	Blacker's Road ...	12	22	5	0
,, Poor Mixed ...	,,	Narasingapooram ...	36	209	8	0
Narayana Raju's, C. ...	5	Pursawalkum ...	15	24	1	0
,, ...	,,	do. ...	12	20	1	0
Narayaniah's, T. ...	2	Davaroya Mudali Street ...	12	29	4	0
Native Seminary ...	,,	Govindappa Naick Street...	33	86	10	0
Parcherry Poor ...	2	North Black Town Street...	9	15	13	0
,, Poor Mixed ..	,,	Portuguese Church St. ...	30	97	15	6
Parthasaradhy Mudali's, C. ...	7	Chintadripett ...	10	11	6	0
Patcheappa Mudali's, M. ...	2	Minjoor Appavoo Mdly. St.	9	15	0	0
,, ...	,,	Vydenada Mudali Street ...	12	15	13	0
Peroomall Raju's, K. ...	,,	Pareanna Mudali Street ...	16	31	2	0
Poonnoosawmy Mudali's, T. ...	,,	Manangappen Street ...	14	7	13	0
Ragaviah's, B. ...	3	Malaperoomall Street ...	17	14	1	0
Rajagopala Mudali's, M. ...	2	Nammalwar Street ...	28	15	2	8
Rajagopala Pllay's, T. N. ...	,,	Peddoo Naick's Pettah ...	26	56	9	0
Ramalinga Chetty's, M. ...	8	Mylapore ...	16	20	5	0
Ramanuja Chary's, T. ...	,,	do. ...	9	17	10	0
,, ...	,,	do. ...	11	29	5	0
Ramanujiah's, P. ..	2	Govindappa Naick Street...	18	25	9	9
,, P. T. ...	3	St. Xavier's Street ...	9	10	2	0
,, T. ...	2	Narayana Mudali Street ...	12	25	8	0
Runga Doss, C. ...	,,	Gooroovappen Street ...	10	3	6	0
Rungiah's, S. Mixed ...	,,	Kandappa Chetty Street ...	20	40	3	0
Rungiah Nayudu's, P. ...	2	Karoopannen Street ...	9	22	10	0
Rungasawmy Vathyar's, M. ...	8	Mylapore ...	11	10	14	0
,, ,, ...	,,	do. ...	11	4	0	0
Sabaupathy Sastry's, B. S. ...	3	Linghi Chetty Street ...	9	20	4	0
,, ,, ...	,,	do ...	11	16	3	9
St. Antony's Boys' ..	5	Seyala Mudali Street ...	9	21	0	0
,, Girls' ...	,,	do ...	12	115	12	0
St. Francis Xavier's, Boys' ...	3	St. Xavier's Street ...	26	50	5	0
,, Caste Girls' ...	,,	do. ...	18	122	3	0
,, Pariah Girls' ...	,,	do. ...	22	127	11	0
St. John's Mixed ...	5	Egmore ...	17	39	3	0
St. Joseph's Mixed ...	,,	Pantheon Road ...	22	53	7	0
St. Matthias' ...	,,	New Town ...	27	54	11	0
,, Boys' ...	,,	do ...	25	64	14	0
Sandiappa Mudali's ...	,,	Pursawalkum ...	11	69	8	0
Saravana Pillay's, C. ...	,,	do ...	12	17	6	0
,, ...	,,	do ...	9	17	11	3
Saravana Vathyar's, P. ...	3	Linghi Chetty Street ...	34	60	5	0
Seetharamiah's, N. ...	2	Sathani Varadiah Street ...	11	5	12	0
Sell's, Reverend E. ...	7	Narasingapooram ...	23	56	4	0
Seshadri Iyengar's ...	2	Davaraya Mudali Street ...	12	28	11	3
Shaik Hussain's ...	4	Perambore ...	39	53	0	0
Shaik Imam's ...	1	Washermanpett ...	9	9	0	0
Shanmooga Mudali's, K. ...	3	Coral Merchant Street ...	15	28	5	0
Streenivassa Charry's, A. ...	7	Chintadripett ...	30	83	1	0
Streenivassulu Chetty's, N. ...	2	Veerappen Street ...	35	71	13	0
Streerama Iyengar's, K. ...	2	Vadamalay Maistry Street.	14	17	6	0
Subbaramiah's, G. ...	,,	Veerappen Street ...	24	39	10	9
Syed Jaffer's ...	1	Washermanpett ...	27	37	0	0
		Carried over...	2.720	5,739	14	11

GENERAL DEPARTMENT.

Name of School.	Division.	Locality.	No. of Pupils Examined.	Amount of Grant. Rs.	A.	P.
		Brought forward...	2,720	5,739	14	11
Syed Kudbudeen's ...	7	Triplicane ...	25	63	0	0
,, ,, ...	,,	do. ...	22	88	12	9
S. P. G. School ...	8	St. Thomé ...	19	40	0	3
,, ,, ...	,,	Sullivan's Gardens ...	18	35	0	0
,, ,, ...	,,	Bishop's Compound ...	12	5	14	9
,, ,, Mixed ...	6	Kutti Street ...	37	98	11	6
Thanappa Mudali's, C. ...	8	Royapett ...	6	15	5	9
,, ...	,,	do. ...	6	9	5	0
Theagaroya Mudali's, K. ...	1	Jandrapett ...	19	39	7	9
Thiagiah's, M. ...	3	Linghi Chetty Street ...	20	54	12	0
Tiruvengadiah's, T. ...	5	Erungundrum ...	18	36	3	0
Tulasinga Mudali's, P. ...	7	Poodoopaukum ...	9	16	11	0
,, ...	,,	do. ...	15	18	12	0
Vadivelu Mudali's, M. ...	8	Mylapore ...	26	43	8	0
,, ...	,,	do ...	19	34	5	0
Varamaniah's, P. ...	3	Munnarsawmy Covil Lane.	15	35	13	3
Vasoodava Pillay's, P. ...	5	Poodoopett ...	9	7	8	0
Veeriah's, C. ...	3	Thyappa Mudali Street ...	15	24	10	0
,, ...	,,	do. ...	13	23	15	0
Veerasawmiah's, B. ...	5	Pursawalkum ...	16	25	7	0
Velu Mudali's, C. ...	3	Pedariar Covil Street ...	7	11	12	0
Vencatasawmy Naick's, C. ...	5	Pursawalkum ...	33	83	6	0
,, ...	,,	Komalaswarampet ...	6	12	15	0
Vencatasoobbiah's, K. ...	2	Strotten Moothia Moodly St.	17	32	3	0
Venoyaga Mudali's, P. ...	8	Mylapore ...	14	36	4	0
,, ...	,,	do. ...	18	48	4	0
Vepery Mission Tope ...	5	Vepery ...	51	49	15	0
Vydenada Mudali's, V. ...	2	Mint Street ...	10	18	15	0
,, ...	,,	do. ...	17	20	6	0
		Total...	3,232	6,770	13	11

Vaccination.—The expenditure on account of Vaccination was Rs. 4,657-13-2 made up of Rs. 3,191-5-0 for Establishment and Rs. 1,466-8-2 for Contingencies.

The Establishment consists of:—

1 1st Class Deputy Inspector	Rs.	70	0	0 per mensem.
4 Do. Vaccinators each at	,,	18	0	0
9 Second Class Male do. } 3 Do. Female do. }	,,	10	0	0
1 Peon	,,	7	0	0

There were 3 Peons during the first three months, but on the recommendation of the Inspector of Vaccination, the services of 2 were dispensed with from April.

The item, Rs. 1,466-8-2, for Contingencies consists of:—

Children's batta at 3 pies each,	Rs.	169	10	2	
Batta to mothers for arm lymph at 4 annas each, maximum ...	,,	1,079	12	5	
					1,249 6 7
Stationery, Office Furniture, &c. ...	,,				217 1 7
					1,466 8 2

GENERAL DEPARTMENT.

The operations and their results are shown in the following statements:—

Under 1 year.

Months.	Males.	Females.	Total of Males and Females.	Results.		
				Successful.	Unsuccessful.	Unknown.
January	186	181	367	342	12	13
February	229	275	504	467	19	18
March	445	377	822	787	8	27
April	337	305	642	604	16	22
May	217	249	466	434	11	21
June	204	170	374	343	16	15
July	218	182	400	363	15	22
August	197	162	359	321	5	33
September	200	230	430	396	18	16
October	278	238	516	479	15	22
November	245	222	467	434	10	23
December	309	251	560	525	16	19
Total...	3,065	2,842	5,907	5,495	161	251

From 1 to under 6 years.

Months.	Males.	Females.	Total of Males and Females.	Results.		
				Success.	Unsuccessful.	Unknown.
January	257	244	501	432	24	45
February	296	267	563	486	30	47
March	446	372	818	682	41	95
April	364	311	675	571	28	76
May	367	245	612	489	34	89
June	242	201	443	341	39	63
July	232	208	440	379	28	33
August	258	215	473	388	36	49
September	247	225	472	405	31	36
October	230	237	467	380	54	33
November	238	224	462	369	44	49
December	300	260	560	480	34	46
Total...	3,477	3,009	6,486	5,402	423	661

APPENDIX II.

GENERAL DEPARTMENT.

6 years and above.

Months.	Males.	Females.	Total of Males and Females.	Results.		
				Successful.	Unsuccessful.	Unknown.
January	439	286	725	541	52	132
February	393	313	706	539	64	103
March	553	368	921	600	123	198
April	522	264	786	435	103	248
May	514	283	797	574	57	166
June	573	350	923	607	93	223
July	546	345	891	672	88	131
August	475	337	812	561	114	137
September	412	296	708	515	99	94
October	332	208	540	336	104	100
November	335	224	559	368	76	115
December	333	212	545	364	88	93
Total...	5,427	3,486	8,913	6,112	1,061	1,740

Total of all Ages.

Months.	Males.	Females.	Total of Males and Females.	Results.		
				Successful.	Unsuccessful.	Unknown.
January	882	711	1,593	1,315	88	190
February	918	855	1,773	1,492	113	168
March	1,444	1,117	2,561	2,069	172	320
April	1,223	880	2,103	1,610	147	346
May	1,098	777	1,875	1,497	102	276
June	1,019	721	1,740	1,291	148	301
July	996	735	1,731	1,414	131	186
August	930	714	1,644	1,270	155	219
September	859	751	1,610	1,316	148	146
October	840	683	1,523	1,195	173	155
November	818	670	1,488	1,171	130	187
December	942	723	1,665	1,369	138	158
Total...	11,969	9,337	21,306	17,009	1,645	2,652

A summary of which is as follows :—

	Under one year.			1 and under 6 years.			6 years and above.			Total.		
	Male.	Female	Total.	Male.	Female.	Total.	Male.	Female.	Total.	Male.	Female.	Total.
Europeans and Eurasians..	140	114	254	77	67	144	190	296	486	407	477	884
Mohamedans	285	256	541	466	319	785	402	206	608	1,153	781	1,934
Hindoos	2,640	2,472	5,112	2,934	2,623	5,557	4,835	2,994	7,819	10,409	8,079	18,488
Total...	3,065	2,842	5,907	3,477	3,009	6,486	5,427	3,486	8,913	11,969	9,337	21,306
Successful...		5,495			5,402			6,112			17,009	
Unsuccessful		161			423			1,061			1,645	
Unknown		251			661			1,740			2,652	

The total number 21,306 includes primary vaccination 19,797, and re-vaccination 1,509; the results of the latter being 660 successful, 301 unsuccessful, and 548 unknown. The extent of operations compare unfavourably with those of the preceding year, when they numbered 39,376, the difference being 18,070 excess in 1878.

The excess in 1878 as compared with 1879 is due to the fact that vaccination was carried out in the day-nurseries and relief camps up to the end of March. The total number of persons vaccinated during the first three months of 1878 was 19,249. During the remaining nine months of the year 18,127 were vaccinated.

Attention was successfully directed to the vaccination of infants and the number more than doubled among those "Under 1 year" as compared with 1878 :—

Under one year.

	Male.	Female.	Total.
In 1879	3,065	2,842	5,907
„ 1878	1,505	1,119	2,624
Excess in 1879 ...	1,560	1,723	3,283

The ratio of number of infants vaccinated to number of births registered shews a satisfactory improvement :—

	Births registered.	Number vaccinated under 1 year.	Number vaccinated to births.
In 1878... ...	15,104	2,624	17·37
„ 1879... ...	16,629	5,907	35·52

The cause of the falling off in the number of children and adults has already been explained. The following comparative Statement gives more detailed information on this point :—

	1 to 6 years.			6 years and above.		
	Males.	Females.	Total.	Males.	Females.	Total.
In 1878	4,676	4,050	8,726	16,762	11,264	28,026
„ 1879	3,477	3,009	6,486	5,427	3,486	8,913
Deficiency in 1879...	1,199	1,041	2,240	11,335	7,778	19,113

The operations of 1879 show an improvement in another particular, namely as to results, the proportion to number vaccinated being :—

	In 1878.	In 1879.
Successful ...	51·02	79·83
Unsuccessful ...	4·12	7·72
Unknown ...	44·86	12·45

Comparing results with the whole population it appears that little over 5 per cent. of the population were vaccinated. The Mohamedans contributed only 3·79. The several classes show as follows :—

	Europeans and Eurasians.	Mohamedans.	Hindoos and Native Christians.	Total.
Under 1 year...	254	541	5,112	5,907
1 to under 6 years	144	785	5,557	6,486
6 years and above	486	608	7,819	8,913
	884	1,934	18,488	21,306
Population	15,626	50,964	330,962	397,55·52
Number vaccinated to population..	5·66	3·79	5·59	36

APPENDIX III.

R. No. 149.

REVENUE DEPARTMENT,
MUNICIPAL OFFICE,
MADRAS, 15*th April* 1880.

From

P. RAMASAWMY CHETTY,
Vice-President, Municipal Commission.

To

A. T. ARUNDEL, ESQ., M. C. S.,
Acting President Municipal Commission.

Sir,

I have the honor hereby to submit the First Annual Report of the administration of this Department under "The City of Madras Municipal Act, 1878," which came into operation on the 1st of January 1879, rendering the calendar year the year of taxation and accounts alike.

2. The introduction of the elective system, the settlement of Forms and the reorganization of the Department, under the new law, the levy for the first time of the Water and Lighting Taxes, and the elaborate procedure with respect to those, as well as the House and Profession Taxes, together with the searching enquiries, which the embezzlement by a House Tax Conicopillay of Municipal moneys, necessitated, have made the working one of an extraordinary character.

Elections of Commissioners.

3. The preparation of the lists of persons qualified to be elected and to vote, required by Section 19 of the Act, and their revision under Section 20, involved considerable labor, and occupied the attention of this Department during the first four months and upwards of the year. Such lists, as finally revised, comprised

271 persons possessing the qualifications detailed in Section 7, to be elected Commissioners, and

185 persons qualified under Section 9 to vote for Commissioners to be elected for the 1st Division.

414	do.	2nd	do.
633	do.	3rd	do.
44	do.	4th	do.
313	do.	5th	do.
222	do.	6th	do.
195	do.	7th	do.
and 190	do.	8th	do.

4. The first election was held on the 29th of April in accordance with the Rules approved of by Government under Section 11, and the following elections were made by virtue of Section 14, viz. :—

2	Commissioners	for the	1st	Division.
3	do.	do.	2nd	do.
3	do.	do.	3rd	do.
2	do.	do.	5th	do.
1	do.	do.	6th	do.
2	do.	do.	7th	do.
and 2	do.	do.	8th	do.

No Commissioner having been elected for the 4th Division, the alternative power conferred by Section 13 was exercised by Government in the nomination of a Commissioner for that Division, which made up the complement of 16 elected Com-

missioners contemplated by Section 9. In consequence, however, of one and the same person, elected for both the Second and Third Divisions, having chosen to represent the latter division in the exercise of the option given by Section 16, a second election was rendered necessary under the provisions of Section 16 to supply his place in the former, and took place on the 10th of May. A third election was made on the 15th of August, to fill up a vacancy caused under Section 27 by the insolvency of a Commissioner of the 7th Division. Excepting one Polling Officer, whom we had to find in a Police Inspector for the general election of the 29th April, the whole of the staff that conducted the elections was composed of Municipal Officers and Employés.

Taxation.

5. All the Taxes, Tolls and Payment for occupation of lands contemplated by the Act, with the exception of the Tax on Military Professions under Section 114, were levied; and the sums collected under the respective heads are hereunder set forth in contrast with those of the previous year.

	1878.			1879.		
	Arrear.	Current.	Total.	Arrear.	Current.	Total.
	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.
I. Tax on Arts, &c...	26,222	63,521	89,743	34,825	77,864	1,12,689
II. Tax on Houses, Buildings and Lands	49,627	3,32,002	3,81,629	10,902	3,24,936	3,35,838
III. Payments for occupation of Municipal Lands ...	1,904	5,388	7,292	425	9,285	9,710
IV. Water Tax	.....	.....	.....	.....	1,25,360	1,25,360
V. Lighting Tax	.....	.....	.....	.....	39,379	39,379
*VI. Tax on Vehicles on Springs and Animals ...	1,896	35,448	37,344	409	42,465	42,874
VII. Tax on Carts and other Vehicles without Springs ...	16	15,596	15,612	43	13,722	13,765
VIII. Tolls on Vehicles and Animals	.....	40,200	40,200	3,600	40,517	44,117
IX. Tax upon places used for the sale by retail of spirituous and intoxicating liquors	485	10,780	11,265	248	13,220	13,468
X. Demand and Warrant Fees	... .	7,111	7,111	.....	4,192	4,192
Total...	80,150	5,10,046	5,90,196	50,452	6,90,940	7,41,392

* The figures against VI for 1878 are those of 1877, the 1878 actuals bearing no comparison in consequence of a portion of the demand for that year having been given up, owing to change in the year of taxation under the new Act.

Tax on Arts, Professions, Trades, Callings, Offices and Appointments, (other than Military Profession) under Section 103.

6. The gross demand of this tax assessed for the year is Rs. 1,35,633 distributed as follows, viz:—

Locality.	Classified Assessment.												Total.
	I.						II.	III.	IV.	V.	VI.	VII.	
	A.	B1.	B2	C	D	D. pro.							
	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.
1st Division ...	500	...	..	...	750	...	1,300	250	1,100	795	648	1,461	6,804
2nd do ...	...	...	...	...	3,450	...	3,400	4,450	5,100	3,780	4,632	2,844	27,656
3rd do ...	7,500	2,000	350	600	13,500	650	14,400	8,100	9,775	5,115	6,840	4,689	73,519
4th do ...	...	...	...	...	...	...	100	200	175	75	128	339	1,017
5th do ...	...	...	350	...	750	...	1,300	750	1,100	570	1,064	1,845	7,729
6th do ...	...	...	...	...	1,350	...	1,600	500	175	255	256	309	4,445
7th do ...	..	...	...	...	3,300	...	2,500	1,400	675	570	1,360	2,289	12,094
8th do ...	...	...	...	...	...	...	1,300	200	50	45	144	630	2,369
Total...	8,000	2,000	700	600	23,100	650	25,900	15,850	18,150	11,205	15,072	14,406	1,35,633

It compares favorably with the average of the previous three years, though it slightly falls short of 1877 and 1878 respectively as hereunder shewn :—

Locality.	Assessment for			Total of the three years.	Average.	Assessment for 1879.
	1876.	1877.	1878.			
1st Division ...	6,282	6,020	5,711	18,013	6,004	6,804
2nd do. ...	21,272	22,289	25,704	69,265	23,088	27,656
3rd do. ...	52,023	87,536	88,440	2,27,999	75,999	73,519
4th do. ...	1,023	2,257	1,958	5,238	1,746	1,017
5th do. ...	9,213	8,575	8,083	25,871	8,623	7,729
6th do. ...	3,836	3,575	3,979	11,390	3,796	4,445
7th do. ...	10,334	9,169	10,297	29,800	9,933	12,094
8th do. ...	1,897	1,947	2,044	5,888	1,962	2,369
Total...	1,05,880	1,41,368	1,46,216	3,93,464	1,31,151	1,35,633

It will be remembered that the demands of 1877, 1878 and 1879 were rendered conspicuous by the taxation of foreign Joint Stock Companies carrying on business through local Agencies.

7. The number of persons and Companies assessed in each Division to each class, shewing a comparison with the previous three years' figures, is exhibited in Appendix I, Appendix II classifying them according to nationality, followed by Appendix III, in which such classification is compared with the classifications of the prior three years, and by Appendix IV which discloses numerically the various professions taxed in each Division.

8. These assessments were made, (except in cases where Schedule A to the Act specially provided otherwise) upon the principle heretofore adopted by the Commissioners, of taxing the professions relatively, and thereby bringing within the clutch of taxation all but the poorest of each profession, whether they made gain or sustained loss, thus treating the Tax as one of License divested of all the odious features of an Income Tax. But the terms of Schedule A gave so wide a scope for objections, that no less than 2,312 revisions were applied for, and 1,582 made, under Clause 2 of Section 104, involving much correspondence and discussion; and a good number of applications stood over at the end of the year, with the certainty of its being abundantly added to subsequently, as has, indeed, been the case. Forty-nine of these revisions, together with 115 other original classifications were heard and decided at 8 several sittings of the Commissioners under Section 189. Seven of the said decisions were made the subject of appeal to the Presidency Magistrates under Section 191 by certain Vakils and Pleaders of the High, Small Cause, and Presidency Magistrates' Courts, their contention, which the Commissioners did not see their way clear to uphold, being that the Salary test was unqualifiedly applicable as well to Offices and appointments as to all other professions. One of these appeals by a leading native member of the profession, was taken as a representative case and discussed by Counsel on behalf of the Municipality, in the first instance, before the Presidency Magistrates, and afterwards, on a reference by them under Section 192 at the instance of the Commissioners, before the Ap-

pellate High Court, and the contention was held good by both the Courts. This decision has in effect settled the other appeals, one of which had, however, been withdrawn before hearing, and been, of course, freely adopted in subsequent departmental revisions, involving a considerable deficit in the Revenue. The revisions thus severally made, result, on the whole, in 659 persons being confirmed in their original assessment, 609 being reduced to lower classes, and the remaining 429 being exempted and compare with those of the previous three years as follows: viz.

	Confirmations.	Reductions.	Exemptions.	Total.
1876 ...	574	1,262	238	2,074
1877 ...	371	321	683	1,375
1878 ...	296	357	482	1,135
Total...	1,241	1,940	1,403	4,584
Average ...	414	647	468	1,528
1879 ...	659	609	429	1,697
Increase ...	245	...	...	169
Decrease ...	...	38	39	...

Their financial effect is a remission in the aggregated of Rs. 19,688-8-0 in the following divisional proportions, viz. .—

1st Division...	...	...	...	...	Rs.	630	8	0
2nd do. ...	...	...	...	...	„	4,978	8	0
3rd do. ...	...	...	...	...	„	10,952	8	0
4th do. ...	...	...	..	...	„	138	8	0
5th do. ...	...	...	...	...	„	862	8	0
6th do. ...	...	...	...	...	„	962	8	0
7th do. ...	...	...	...	...	„	836	0	0
8th do. ...	...	...	...	....	„	327	8	0
				Total	Rs.	19,688	8	0

The collections made, in the course of the year, amounted to Rs. 77,864 against Rs. 60,665 in 1876, Rs. 65,273 in 1877 and Rs. 63,520 in 1878, and exceed the average, viz., Rs. 63,153 by Rs. 14,711.

9. The realization necessitated, besides the summary departmental process, 3,606 Magisterial prosecutions in respect of the first, and 2,467 in respect of the second half year's demand under Section 106. 5,553 of these prosecutions were compromised by settlement out of Court; 153 resulted in convictions under Section 107, accompanied by penalties amounting in the aggregate to Rs. 80 (exclusive of Tax) which form part of the Fines realized; and the remaining 367 stand over, chiefly on account of the absence from Madras of the parties prosecuted. These prosecutions instituted, as they were, for each half year, are not comparable with the procedure of the previous years, when only one prosecution lay for the whole year. The resort to Notices of Demand and Distress Warrants under the 197 and following Sections was very limited.

10. The last mentioned processes were, however, more largely made use of,

270 of the former and 120 of the latter in addition to Magisterial proceedings, for the realization of arrears, of which

	Rupees	269	were got in for 1875,
	,,	204	for 1876,
	,,	4,250	for 1877, and
	,,	30,101-8	for 1878, making
together	,,	34,824-8	against Rs. 27,282 in 1876, Rs. 7,040 in 1877 and Rs. 5,665 in 1878.

11. Thus a gross sum of Rs. 1,12,688-8 was collected for arrears and current, against Rupees 1,17,276 in 1876,
,, 94,658 in 1877 and
,, 89,743 in 1878.

12. Appendix V exhibits the Demands assessed for 1876, 1877 and 1878 respectively, the remissions allowed against, and the Collections made on account of them respectively, up to the end of the year under report and the balances then remaining unadjusted respectively, compared with the Demand, Remission, Collection and balance for the past year. It will be observed that the expectations as regards realizations of the former two years have been more than reached. All but a very small proportion of the balances are irrecoverable and only await to be written off after the lapse of the usual period allowed for tracing defaulters. The out-turn of the year under report, will ultimately fall below the average, much of the remaining balance of that year having to be sacrificed under the ruling of the High Court above adverted to.

Vide page 15 of the Administration Report for 1875-76.

Tax on Houses Buildings and Lands under Sections 119 and 120.

13. In the course of the revision of this Tax, levied at the maximum rate of 10 per cent. on the annual valuation, except in a small number of cases where the area-rate under Section 120 was adopted, 374 fresh assessments were made on buildings newly constructed or improved, amounting to Rs. 2,137-12-11; and, owing to total or partial demolition, or depreciation of value from other causes in 233 cases, an aggregate reduction of Rs. 1,374-4-3 was made, resulting in a net increase of Rs. 763-8-8 as appears by Appendix VI. This, added to the net demand of 1878 viz., Rs. 3,52,426, decreased by reductions to the extent of Rs. 3,399-10-8 on the disposal of complaints under Section 189, formed the net demand of 1879 at Rs. 3,49,789-12-8 as shewn in Appendix VII, against Rs. 3,41,608 for 1876 (levied at 7½ per cent. but taken at 10 per cent. for comparison) Rs. 3,48,730 for 1877 and Rs. 3,52,426 for 1878, which are also exhibited in detail in Appendix VIII.

14. Appendix IX represents a graduated scale of the valuations as they appear on the Registers at the end of the year under report.

15. The extent of the revision of assessments is compared with the operations in that direction of the previous three years in Appendix X. It will be observed that, whilst the number of appeals against fresh assessments is comparatively small,

complaints against standing assessments were much in excess of the average, owing, it is believed, to the imposition of Water and Lighting Taxes (which increased the liability of House property by more than 50 per cent. of what it had been before) and to the general depreciation of the value of House property in the City.

16. Unlike former years, this tax was collectable under Section 121 by two half-yearly instalments. Of the demand of the year, a sum of

Rs. 3,24,868-12-0 was collected, besides an over-payment of Rs. 68-2-3.
„ 3,509-11-9 was written off as remission under Sections 133 and 135, and
„ 21,411-4-11 remains over for this year: and of arrears
„ 10,870-4-11 was collected, besides an excess of Rs. 32-0-6.
„ 2,654-4-10 was written off, and
„ 7,619-5-6 remains over.

Thus a total collection of Rs. 3,35,739-0-11 was made against a total arrears and current demand of Rs. 3,70,933-11-11, leaving, after deducting remissions as above to the aggregate amount of Rs. 6,164-0-7, a balance of Rs. 29,030-10-5 as per details given in Appendix XI.

17. The demand, remission, collection and balance of the year are compared with their correspondents of the three previous years in Appendix XII.

18. I had to depend wholly on Departmental processes for the recovery of this Tax and the extent to which they have been resorted to is as follows, viz. :—

Notices issued under Section 196...	...	64,163
Notices of Demand issued do. 197...	...	31,914
Warrants of Distress do.	...	12,489
Unexecuted Warrants of previous years	...	1,530
Warrants of Distress adjusted before execution		6,624
Do. do. after execution and before Sale of Distress		4,399
Do. adjusted by 40 Sales of Distress under Section 201—Arrears 161 Rs. 1,159-11-11 Current 555 Rs. 2,975 6 4		716

Deficiency owing to insufficient Distress ...	Arrears Rs.	670	8	4
	Current „	1,676	11	8
Surplus of Distress...	Arrears „	43	12	4
	Current „	153	8	3

Warrants pending execution and adjustment at the end of the year 2,280.

The coercive processes issued in the course of the year, relate to the classes of property described below :—

890	Warrants	as	to	property	of the annual value	of Rs.	14
2,696	do.	...	...	...	do.	„	24
3,622	do.	...	...	...	do.	„	48
3,069	do.	...	...	...	do.	„	96
1,401	do.	...	...	...	do.	„	192
512	do.	...	...	...	do.	„	384
191	do.	...	...	...	do.	„	786
83	do.	...	...	...	do.	„	1,536
20	do.	...	...	...	do.	„	3,072
5	do.	...	...	...	do.	„	6,144

REVENUE DEPARTMENT.

Payment for Occupation of Municipal Lands under Section 137.

19. This source of revenue arises out of unauthorized occupation of lands which is charged at rates ranging from Rs. 7 to 35 per ground per mensem and fluctuates according to occupation by itenerant dealers. The demand of the year consisted of

Arrears of former years.	4th Qr. of 1878.	1st Qr. of 1879.	2nd Qr. of 1879.	3rd Qr. of 1879.	4th Qr. of 1879.	Total.
2,838-7-4	2,250-3-2	2,325-5-8	2,368-15-11	2,504-0-9	2,234-8-6	14,491-9-4
	Remissions were granted as follows, viz. :—					
1,222-11-0	45-11-1	...	...	...	...	1,268-6-1
	The following collections were made, viz. :—					
425-6-10	1,835-7-10	1,890-3-0	2,078-0-5	1,965-0-6	1,516-0-9	9,710-3-4
	and the balances given below remain over					
1,190-5-6	369-0-3	435-2-8	290-15-6	539-0-3	718-7-9	3,512-15-11

20. The demand, collection, and balance of the year under report compare favorably with those of the former three years as shewn below :—

	Demand.	*Collection.*	*Balance.*
	Rs.	Rs.	Rs.
1876 ...	7,071	2,162	4,909
1877 ...	7,267	6,275	922
1878 ...	8,811	7,024	1,787
Total ...	23,149	15,461	7,688
Average.	7,716	5,154	2,563
1879 ...	9,433	7,449	1,984
Increase..	1,717	2,295	...
Decrease.	...	...	579

21. Like the House Tax, these payments owe their collection to the following processes, viz :—

Notices under Section 196	No.	13,095
Warrants of Distress issued under Section 197	„	6,269
Unexecuted Warrants of previous years...	„	281
Warrants adjusted before execution	„	4,029
Do. after execution and before sale of distress	„	754
Do. adjusted by 18 sales of distress ... Arrears 6 Rs. 9-13-6 / Current 23 Rs. 23-2-6 ...	„	29
Deficiency owing to insufficiency of distress... Arrears Rs. 3 0 10 / Current „ 4 1 6		
Surplus of distress... ... ... Arrears „ 6 12 2 / Current „ 7 7 3		
Warrants pending execution...	No.	1,738

Water Tax under Section 139.

22. This tax is leviable on the same principle, and payable in the same manner, at the same times, and subject to the same conditions, as the House Tax, except that the rate levied is 4 per centum upon the annual valuation of property,

which is the maximum rate authorized by the Act, and that the minimum taxable value is Rs. 24 against Rs. 14, in the case of the House Tax. The assessed demand of the year, based on the valuation finally settled for the purposes of the House Tax, is Rs. 1,35,824-12-2, whereof Rs. 1,25,312-13-0 have been collected besides Rs. 21-0-1 received as overpayment. Rs. 1,401-1-4 have been remitted under Sections 133 and 135, and there remain Rs. 9,110-13-10 outstanding at the end of the year, as will be seen from the detailed particulars given in Appendix XIII.

23. The processes adopted for the realization of the House Tax answered the purposes of this Tax equally well as they covered all the Taxes due at the same time; and there would hardly be any extra labor, had it not been for the redundancy of appeal created by Clause (C) of Section 190, which throws every half year's Tax open to objection within 7 days of demand, independently of the revision under Sections 130 and 132, the effect of such redundancy being that an appeal lies with respect to a year's Water Tax not only along with House Tax, under Section 130 or 132, but also separately on each half year's demand under Section 196. This superfluity of procedure, combined with the provisions of Section 141 and of Section 211 defining the Water-supply area, has, in addition to retarding the progress of realization, given rise to much extra correspondence, besides the appeals, which fortunately have not been more than 80 in number, others having been thrown out as not being within time. At the first sitting held under Section 189 for the disposal of 30 of these appeals, a strong opposition was started to the right of the Municipality to levy Water Tax on property not coming within the area defined by Section 211; but was overruled by the sitting Commissioners. The decision in one of these cases was appealed against to the Presidency Magistrates under Section 191, who upheld the Commissioners' view, which was afterwards confirmed by the High Court on a reference made by the Magistrates at the instance of the appellant under Section 192. The decision thus confirmed was, of course, followed in the disposal of the remaining complaints.

Lighting Tax under Section 151.

24. This imposition differs from the Water Tax in the Rate, which is $1\frac{1}{4}$ per cent. on the annual value of property, the maximum being 2 per cent. The procedure in other respects, including the redundant provision for appeals, is precisely the same as the Water Tax, and the processes adopted for collection were concurrent with those of the House and Water Taxes. The demand assessed on the settled basis of the House Tax was Rs. 42,455-9-6, remissions were allowed under Sections 133 and 135 aggregating Rs. 438-14-2; a sum of Rs. 39,362-6-4, exclusive of an overpayment Rs. 6-14-8, was collected; and a balance of Rs. 2,654-5-0 remained uncollected at the end of the year as per particulars disclosed in Appendix XIV.

25. There were but 23 appeals under Clause (C) of Section 190 which were disallowed, and correspondence with parties objecting to pay the Tax on the ground of their not being near any Municipal light, caused much friction in the realization of the Budget Estimate.

26. In connection with the Taxes on Houses it is, perhaps, not out of place to notice the embezzlement which one of the men employed for their collection fraudulently committed. Continuing honestly in the Municipal service for upwards of 10 years, he stopped away at the end of August last under the pretence

of a reliable Medical Certificate and disappeared from Madras after having, as it is believed, with the aid of 2 accomplices, secured by collection within a short time, Rs. 6,715, which have been credited in account *pro formâ*. A charge was laid before the Magistrates; and one of the accomplices that lately turned up, stands for trial. The principal offender, with the other accomplice, is still undetected.

27. On minute investigation of the matter, one of the examining clerks, P. Kistnasawmy Moodelly, has been found guilty of suppressing facts, the disclosure whereof in time would have prevented the malpractice to such an irrecoverably serious extent, as it has proved to be, and has been dismissed from the service; and a distraining officer, P. Theroovengada Moodelly, the father of the said clerk, has been suspended pending further enquiry, on suspicion of his having been a party to the mischief.

28. The elaborate enquiries which the embezzlement led to and the restrictions which have been laid down in consequence for the guidance and management of the collecting staff, have caused a general friction in the collection work, but for which the results would have undoubtedly far exceeded the estimates of all the Taxes imposed on Buildings and Lands.

Tax on Vehicles on Springs and Animals under Section 155.

29. The new Act changed the half-yearly period of taxation from May to October and November to April to January to June and July to December respectively; and, though the revised rates of Tax are slightly higher than the former ones with respect to first class carriages and horses, but little improvement is noticeable in the demand, which, according to the particulars contained in Appendices XV and XVI, amounts to Rs. 43,595 for the year against Rs. 44,562-12-0 for 1876-77, and Rs. 42,203-8 for 1877-78, the circumstances of 1878 being exceptional and, therefore, incomparable. Appendix XVII exhibits a comparison of these sums in detail, the difference being unworthy of special notice.

30. As shewn in Appendix XVIII, Rs. 42,464-8 of the demand has been collected, besides Rs. 55-8 in arrears for 1877 and Rs. 353-8 for 1878, making an aggregate of Rs. 409, against Rs. 38,295 for current and Rs. 2,505-4 for arrears collected in 1876-77 and Rs. 35,447-8 and Rs. 1,896 in 1877-78, which are also compared with Appendix XVIII in Appendix XIX.

31. Several revisions were applied for and made under Section 162, and a sum of Rs. 799-12 has been remitted on exemptions and as bad and uncollectable items, leaving a remainder of Rs. 330-12-0.

32. The processes availed of for the collection of this Tax were—

4,759 Forms under Section 160.
2,024 Bills under Section 162
34 Summons under Section 164.
1,128 Prosecutions under Section 167.

Scarcely any distraint was rendered necessary, and all prosecutions were compromised out of Court and, therefore, not proceeded with to the last, excepting 28 under Section 167, which resulted in convictions and fines, irrespective of Taxes, amounting to Rs. 9-6-0, realized and credited to that account.

33. Until the repeal by the Hackney Carriages Act III of 1879, of Sections 158 and 159, 891 Hackney carriages of all descriptions were registered for the year at a uniform fee of one Rupee each; and the registration was transferred to

the Commissioner of Police under the provisions of the said Act on the 15th of June 1879.

Tax on Carts and other Vehicles without Springs under Section 168.

34. This was about the easiest of all Taxes to recover, since no further action was necessary to enforce payment than the seizure and detention under the power conferred by Section 172, of unregistered carts. Carts registered in the year under such circumstances amounted to 2,221, which plus 4,642 voluntary registrations, make an aggregate of 6,863 for both half years (the registration being as before half-yearly) against 6,591 in 1876, 8,879 in 1877, and 7,820 in 1878. The Taxes collected on such registrations amount to Rs. 13,722-7-0, besides Rs. 42-12-4 for arrears of 1878, totalling Rs. 13,765-3-4, against Rs. 13,229 in 1876, Rs. 17,817 in 1877 and Rs. 15,684 in 1878. It should not be forgotten that 1877 was exceptional in that it was the Famine year.

35. No other coercion was exercised in the case of this Tax than the sale, under Section 173, of 19 carts seized and detained under Section 172, the proceeds leaving a surplus of Rs. 37-7-2 to be dealt with under Section 173.

Tolls on Vehicles and Animals entering the Municipal limits under Section 174.

36. The only part that this office took in realizing the revenue from this source, was the exercise, as usual, of the power given by Section 174, in farming it for Rs. 44,200 for the year, against Rs. 40,100 for 1876, Rs. 45,000 for 1877 and Rs. 43,200 for 1878; and realizing it by monthly instalments of Rs. 3,683-5-4 in arrear. It is believed that the fall is owing to the diminution of traffic by the trunk road leading to Saidapet caused by the South Indian Railway. The difference between the amount realized and that quoted as the contract sum for the year is accounted for by the fact of the last instalment of the previous year viz., Rs. 3,600 being received in January of the last year, against the last instalment of the year under report remaining over to be paid in arrear.

37. We have compounded for the convenience of the outside public, but for the benefit of the Toll Farmers, under Section 179 for the carriages and animals, which with their correspondents of the three previous years are described in Appendix XX.

Tax upon places used for the sale of Spirituous and Intoxicating Liquors under Section 183.

38. As usual, the demand was based chiefly upon the Collector of Madras, dowles. It differed from its predecessors in that the shops for the sale of European Liquors were confined to the two higher classes of Schedule E, whilst the repealed Act treated shops of all kinds in each class. There were altogether 510 shops holding retail licenses assessed at Rs. 15,100, as per details given below,

Description of Shops.	Class.				Total Number of Shops.	Amount of Assessment.
	I.	II.	III.	IV.		
Puttai Arrack	2	3	15	33	53	1,071
Columbo Arrack	5	23	16	5	49	1,985
Beer, Wine and Spirits	8	98	...	...	106	5,500
Toddy	...	57	58	187	302	6,544
Total...	15	181	89	225	510	15,100

against 504 at Rs. 11,300 in 1876, 498 at Rs. 11,200 in 1877, and 510 at Rs. 11,500 in 1878. The excess is owing, as above pointed out, to the standard of Tax for European Liquor shops being raised. A divisional arrangement of the shops as classified for taxation, with the population and its ratio to each shop, is contained in Appendix XXI and their comparison in detail with the shops assessed in the previous three years will be found in Appendix XXII.

39. Applications for revision were extraordinarily numerous especially from dealers in European Liquors ; but as the Schedule left no option, they were rejected except in 7 cases where there was an alternative. Thus, in the disposal of 9 applications under Sections 184 and 185 assessments were revised by lowering the classification at an aggregate reduction of Rs. 301.

40. A collection of Rs. 13,196 was made for current demand and Rs. 160 for arrears of 1878, Rs. 12 for 1877, Rs. 50 for 1876 and Rs. 50 for 1875, making a gross sum of Rs. 13,468, against Rs. 11,645 in 1876, Rs. 10,504 in 1877 and Rs. 10,457 in 1878.

41. I append a statement XXIII shewing the Demand, Remission, Collection and Balance of the year under report compared with the result of the operations of the previous three years. A very little proportion of the balance is recoverable, if at all, owing to the parties liable not forthcoming, in consequence whereof, I have had, in a few cases, to resort to the provisions of Section 197, independent of the prosecutions instituted under Section 187, which was availed of in no less than 376 cases of which 300 were settled out of Court and 34 were tried and convicted, the penalty inflicted being on the whole Rs. 122-8, which has been credited to Fines, and the remnants are pending.

Demand and Warrant Fees.

42. The sum of Rs. 4,191-10-0 realized is composed of fees levied under Sections 198 and 202, in all cases in which the processes to which those Sections refer to, were used with effect and forms part of Miscellanea in the general account.

I have the honor to be,

Sir,

Your most obedient Servant,

P. RAMASAWMY CHETTY,

Vice President.

APPENDIX I.

Assessments of Profession &c. Taxes for 1879, *compared with those of* 1876, 1877 *and* 1878.

Locality.	Number of persons classified for 1879 in												Total assessed.	Percentage of the assessed to total population.	Total for 1876.	Total for 1877.	Total for 1878.	Average of the last 3 years.	Percentage of the average to total population.
	I.						II.	III.	IV.	V.	VI.	VII.							
	A.	B1.	B2.	C.	D.	D. pro.													
1st Division	1	...	...	...	5	...	13	5	44	53	81	487	689	1·06	588	577	527	564	·86
2nd do	...	...	...	...	23	...	34	89	204	252	579	948	2,129	2·83	1,980	1,896	2,172	2,016	2·67
3rd do	15	8	1	3	90	13	144	162	391	341	855	1,563	3,586	7·03	3,184	3,646	3,793	3,541	6·94
4th do	...	...	...	...	...	...	1	4	7	5	16	113	146	1·49	113	181	163	152	1·55
5th do	...	...	1	...	5	...	13	15	44	38	133	615	864	1·32	969	881	922	924	1·41
6th do	...	...	...	...	9	...	16	10	7	17	32	103	194	1	200	215	223	213	1·09
7th do	...	...	...	...	22	...	25	28	27	38	170	763	1,073	1·54	1,045	955	1,092	1,031	1·48
8th do	...	...	...	...	...	...	13	4	2	3	18	210	250	·6	238	245	241	241	·58
Total...	16	8	2	3	154	13	259	317	726	747	1,884	4,802	8,931	2·25	8,317	8,596	9,133	8,682	2·18

APPENDIX II.

Divisional distribution of Nationality of persons assessed to Profession, &c. Taxes for 1879.

Locality.	Hindus.	Mahomedans.	Others.	Joint Stock Companies.	Total.
1st Division	586	27	73	3	689
2nd do	2,027	50	42	10	2,129
3rd do	2,568	447	510	61	3,586
4th do	109	23	14	.....	146
5th do	681	89	84	10	864
6th do	121	18	55	.....	194
7th do	729	187	152	5	1,073
8th do	215	14	20	1	250
Total...	7,036	855	950	90	8,931

APPENDIX III.

Statement showing the Nationality of persons assessed to Profession, &c. Taxes for 1879, *compared with those of the previous three years.*

Period.	Hindus.	Mahomedans.	Others.	Joint Stock Companies.	Total.
1876	6,243	838	1,179	57	8,317
1877	6,495	823	1,144	135	8,597
1878	7,044	826	1,130	133	9,133
Total...	19,782	2,487	3,453	325	26,047
Average	6,594	829	1,151	108	8,682
1879	7,036	855	950	90	8,931
Increase	442	26	.....	.....	249
Decrease	.....	.....	201	18	219

APPENDIX III.

APPENDIX IV.

Abstract of Professions assessed for 1879.

No.	Profession.	Division.								
		1st	2nd	3rd	4th	5th	6th	7th	8th	Total.
1	Salaried persons	74	58	483	15	80	36	160	21	927
2	Joint Stock Companies ...	3	12	61	...	10	...	5	1	92
3	Auctioneers	...	...	3	...	...	...	5	...	8
4	Merchants, Agents and Sowcars	80	331	530	8	52	2	14	4	1,021
5	Traders	260	1,139	1,576	69	424	90	561	101	4,220
6	Brokers and Dallals ...	3	55	225	11	10	1	35	3	343
7	Manufacturers	140	64	149	9	20	1	23	14	420
8	Artizans	24	302	159	11	119	17	123	17	772
9	Owners of Markets ...	7	3	4	1	4	1	5	4	29
10	Practising Surgeons and Physicians	...	...	4	...	1	...	1	...	6
11	Boarding House keepers & Hotel keepers	2	21	31	...	5	5	7	5	76
12	Videans	1	9	9	2	7	...	6	6	40
13	Petty money lenders & Traders in money	2	19	51	5	39	1	41	13	171
14	Practising Barristers-at-Law, Vakils and Attorneys, High Court	...	...	66	...	1	...	1	2	70
15	Civil Engineers	2	...	...	...	...	...	...	...	2
16	Owners of Printing Press ...	3	15	18	...	4	4	6	...	50
17	Editors of Newspapers ...	...	...	6	...	...	...	...	...	6
18	Contractors	3	5	14	...	4	2	...	...	28
19	Dealers in Carriages & Horses...	...	...	18	...	...	...	...	...	18
20	Boat Owners	1	...	9	...	...	...	...	...	10
21	Hakeems	...	...	5	...	2	...	6	...	13
22	Apothecaries	...	...	...	...	1	...	...	...	1
23	Native Medical Practitioners ...	...	...	1	...	...	...	...	...	1
24	Dancers and Musicians ...	...	51	11	...	1	...	11	...	74
25	Photographers	...	...	2	...	...	...	...	...	2
26	Dentists	...	...	...	...	...	1	...	...	1
27	Shopkeepers	81	45	118	15	78	33	63	59	492
28	Dubashes	...	...	28	...	...	...	...	...	28
29	Builders	3	...	3	...	2	...	...	...	8
30	Actors...	...	...	2	...	...	...	...	...	2
	Total...	689	2,129	3,586	146	864	194	1,073	250	8,931

APPENDIX V.

Statement of Demand, Collection, Remission and Balance of Profession, &c. Taxes for 1879, *compared with* 1876, 1877 *and* 1878.

Period.	Gross Assessment	Collected up to 31st Dec. 1879.	Remissions granted up to 31st Dec. 1879.	Balance on 31st Dec. 1879.	Remarks.
	RS.	RS.	RS.	RS.	
1876	1,05,880	79,225	18,210	8,445	
1877	1,41,368	94,774	31,448	15,146	
1878	1,46,216	93,748	29,290	23,178	
Total...	3,93,464	2,67,747	78,948	46,769	
Average	1,31,155	89,249	26,316	15,590	
1879	1,35,633	77,864	19,689	38,080	

APPENDIX VI.

Abstract of New and Increased Assessments, Exemptions and Reductions of House Tax made in the course of the preparation of Registers for the calendar year 1879.

Locality.	Increase.															Decrease.														Not Increase.		
	New Assessment.						Increase of Assessment						Total.			Exemption.						Reduction.						Total.					
	Number of cases.	Valuation.			Rate at 10 per cent.		Number of cases.	Valuation.		Rate at 10 per cent.			Number of cases.	Valuation.		Rate at 10 per cent.			Number of cases.	Valuation.		Rate at 10 per cent.			Number of cases.	Valuation.		Rate at 10 per cent.					
		Rs.	A.	Rs.	A.	P.		Rs.	A.	Rs.	A.	P.		Rs.	A.	Rs.	A.	P.		Rs.	A.	Rs.	A.	P.		Rs.	A.	Rs.	A.	P.		Rs.	A.	P.
1st Division ...	31	1,299	0	129	14	5	41	3,106	0	310	9	7	72	4,405	0	440	8	0	20	3,551	0	355	1	7	7	793	0	79	4	9	27	4,344	0	434	6	4	+ 6	1	8
2nd do ...	11	977	0	97	11	2	51	1,975	0	197	8	0	62	2,952	0	295	3	2	8	519	0	51	14	7	3	1,002	0	100	3	2	11	1,521	0	152	1	7	+ 143	1	7
3rd do ...	3	378	0	37	12	10	29	1,540	0	154	0	0	32	1,918	0	191	12	10	3	165	0	16	8	0	11	2,438	12	243	13	11	14	2,603	12	260	5	11	— 68	9	1
4th do ...	8	243	0	24	4	10	5	76	0	7	9	7	13	319	0	31	14	5	6	136	0	13	9	7	2	230	0	23	0	0	8	366	0	36	9	7	— 4	11	2
5th do ...	31	1,185	0	118	8	0	22	2,153	0	215	4	10	53	3,338	0	333	12	10	41	1,140	8	114	0	10	10	206	0	20	9	7	51	1,346	8	134	10	5	+ 199	2	5
6th do ...	22	474	0	47	6	5	9	534	0	53	6	5	31	1,008	0	100	12	10	24	569	4	56	14	10	2	411	0	41	1	7	26	980	4	98	0	5	+ 2	12	5
7th do ...	47	1,880	0	188	0	0	31	3,394	0	339	6	5	78	5,274	0	527	6	5	42	1,101	12	110	2	9	11	228	0	22	12	10	53	1,329	12	132	15	7	+ 394	6	10
8th do ...	15	575	0	57	8	0	18	1,589	0	158	14	5	33	2,164	0	216	6	5	33	971	0	97	1	7	10	280	8	28	0	10	43	1,251	8	125	2	5	+ 91	4	0
Total...	168	7,011	0	701	1	8	206	14,367	0	1,436	11	3	374	21,378	0	2,137	12	11	177	8,153	8	815	5	7	56	5,589	4	558	14	8	233	13,742	12	1,374	4	3	763	8	8

APPENDIX VII.

Abstract showing the assessed and net demand of House Tax for the calendar year 1879

Locality.	Area in square miles.	Number of premises not liable to rate and therefore not assessed.	Number of rateable premises.	Population.	Ratio of population to holdings.	Proportion of space occupied by each individual in square yards.	Demand levied.						Number of appeals admitted and heard.	Number of appeal sittings.	Reduction granted on disposal of such appeals by Commissioners.				Net demand after allowing such reduction.						Incidence of rate per head of population.			Budget.
							Valuation.			Rate at 10 per cent.					Valuation.			Rate at 10 per cent.			Valuation.			Rate at 10 per cent.						
							Rs.	A.		Rs.	A.	P.			Rs.	A.		Rs.	A.	P.	Rs.	A.		Rs.	A.	P.	Rs.	A.	P.	
1st Division	5·31	841	3,525	65,547	15·00	250·93	3,11,472	8		31,146	2	2	67	2	1,583	8		158	5	8	3,09,889	0		30,987	12	6	0	7	6	31,000
2nd ,, ...	1·02	639	6,931	75,326	9·95	41·94	6,71,729	8		67,172	10	0	101	1	4,050	0		405	0	0	6,67,679	8		66,767	10	0	0	14	2	67,000
3rd ,, ...	0·91	744	5,544	50,957	6·96	55·12	8,65,798	0		86,580	1	6	79	1	12,335	8		1,233	8	10	8,53,462	8		85,346	8	8	1	10	9	*1,12,000
4th ,, ...	3·88	311	584	9,791	10·95	1,227·53	98,200	0		9,819	11	4	9	1	185	0		18	8	0	98,015	0		9,801	3	4	1	0	2	9,000
5th ,, ...	2·81	1,149	4,929	65,491	10·78	132·90	5,22,405	4		52,239	14	6	71	1	3,088	8		308	13	8	5,19,316	12		51,931	0	10	0	12	8	52,000
6th ,, ...	4·16	473	1,209	19,390	11·52	664·00	3,07,662	12		30,765	12	7	43	1	2,854	0		285	6	5	3,04,808	12		30,480	6	2	1	9	2	31,000
7th	2·19	1,302	6,085	69,568	9·42	97·54	4,59,137	0		45,913	2	7	214	2	3,861	8		386	2	5	4,55,275	8		45,527	0	2	0	10	5	45,000
8th ,, ...	6·54	1,220	3,597	41,482	8·54	488·36	2,95,524	12		29,552	0	8	126	1	6,088	8		608	13	8	2,89,436	4		28,948	3	0	0	11	2	29,000
Total...	26·62	6,679	32,404	3,97,552	9·94	208·97	35,31,929	12		3,53,189	7	4	710	10	33,996	8		3,399	10	8	34,97,933	4		3,49,789	12	8	0	14	1	3,76,000

* Fort Included.

APPENDIX VIII.

Statement of House Tax assessed for the calendar year 1879 as contrasted with the three preceding years.

Locality.	Net Demand of 1876.							Net Demand of 1877.							Net Demand of 1878.						
	Number of premises not liable to rate and therefore not assessed.	Number of rateable premises.	Valuation.		Rate.			Budget.	Number of premises not liable to rate and therefore not assessed.	Number of rateable premises.	Valuation.		Rate.			Budget.	Number of premises not liable to rate and therefore not assessed.	Number of rateable premises.	Valuation.		Rate.			Budget.
			Rs.	A.	Rs.	A.	P.	Rs.			Rs.	A.	Rs.	A.	P.	Rs.			Rs.	A.	P.	Rs.	A.	P.	Rs.
1st Division	902	3,478	3,04,234	8	22,818	2	3	22,600	798	3,485	3,08,482	0	30,848	0	0	30,666	817	3,513	3,11,619	8	0	31,162	11	6	31,000
2nd do.	661	6,813	6,55,624	8	49,171	15	2	49,000	664	6,862	6,59,918	8	65,991	7	1	65,333	660	6,891	6,70,334	8	0	67,033	15	0	66,000
3rd do.	694	5,469	8,35,084	4	62,631	7	3	64,000	802	5,425	8,54,128	8	85,188	5	11	83,333	784	5,475	8,66,102	0	0	86,498	11	4	85,000
4th do.	322	557	90,817	8	6,811	8	0	6,700	320	573	90,723	0	9,072	4	6	9,333	311	577	98,247	0	0	9,824	14	1	9,000
5th do.	1,166	4,789	4,84,358	4	36,327	7	7	37,000	943	4,899	5,21,122	8	52,111	12	2	48,000	1,060	4,939	5,20,509	4	0	52,051	11	5	52,000
6th do.	450	1,172	3,12,905	4	23,468	2	5	23,600	457	1,207	3,12,051	4	31,205	1	3	31,333	450	1,244	3,07,635	0	0	30,763	13	6	31,000
7th do.	1,381	5,803	4,40,273	0	33,021	0	8	33,500	1,292	6,050	4,47,951	12	44,794	8	3	44,000	1,326	6,068	4,56,397	12	0	45,641	2	2	45,000
8th do.	1,214	3,476	2,92,781	4	21,959	0	8	22,000	1,200	3,527	2,95,191	4	29,518	9	11	29,333	1,183	3,529	2,94,481	4	0	29,448	15	8	30,000
At 7½ per cent.	6,790	31,562	34,16,078	8	2,56,208	12	0	2,58,400	...	...	...	...	...	...	..	...	...	...	...	...	...	...	...	...	...
At 10 per cent.	6,790	31,562	34,16,078	8	3,41,607	13	7	3,44,533	6,476	32,028	34,89,568	12	3,48,730	1	1	3,41,331	6,591	32,236	35,25,326	4	0	3,52,425	14	8	3,49,000
Net assessment for 1879 at 10 per cent. ...	6,679	33,335	34,97,933	4	3,49,789	12	8	3,76,000	6,679	33,335	34,97,933	4	3,49,789	12	8	3,76,000	6,679	33,335	34,97,933	4	0	3,49,789	12	8	3,76,000
Increase in 1879	...	1,773	81,854	12	8,181	15	1	31,467	203	1,307	8,364	8	1,059	11	7	34,669	88	1,099	...	...	...	...	...	...	27,000
Decrease in 1879... ...	111	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	27,393	0	0	2,636	2	0	...

APPENDIX IX.

Graduated scale of Valuations of Houses, Buildings and Lands assessed for the year 1879.

Locality.	Not exceeding Rs. 10.	Exceeding Rs. 10 but not exceeding Rs. 20.	Exceeding Rs. 20 but not exceeding Rs. 30.	Exceeding Rs. 30 but not exceeding Rs. 40.	Exceeding Rs. 40 but not exceeding Rs. 50.	Exceeding Rs. 50 but not exceeding Rs. 60.	Exceeding Rs. 60 but not exceeding Rs. 70.	Exceeding Rs. 70 but not exceeding Rs. 80.	Exceeding Rs. 80 but not exceeding Rs. 90.	Exceeding Rs. 90 but not exceeding Rs. 100.	Exceeding Rs. 100 but not exceeding Rs. 150.	Exceeding Rs. 150 but not exceeding Rs. 200.	Exceeding Rs. 200 but not exceeding Rs. 250.	Exceeding Rs. 250 but not exceeding Rs. 300.	Exceeding Rs. 300 but not exceeding Rs. 350.	Exceeding Rs. 350 but not exceeding Rs. 400.	Exceeding Rs. 400 but not exceeding Rs. 450.	Exceeding Rs. 450 but not exceeding Rs. 500.	Exceeding Rs. 500 but not exceeding Rs. 600.	Exceeding Rs. 600 but not exceeding Rs. 700.	Exceeding Rs. 700 but not exceeding Rs. 800.	Exceeding Rs. 800 but not exceeding Rs. 900.	Exceeding Rs. 900 but not exceeding Rs. 1,000.	Exceeding Rs. 1,000 but not exceeding Rs. 1,500.	Exceeding Rs. 1,500 but not exceeding Rs. 2,000.	Exceeding Rs. 2,000 but not exceeding Rs. 2,500.	Exceeding Rs. 2,500 but not exceeding Rs. 3,000.	Exceeding Rs. 3,000 but not exceeding Rs. 3,500.	Exceeding Rs. 3,500 but not exceeding Rs. 4,000.	Exceeding Rs. 4,000 but not exceeding Rs. 4,500.	Exceeding Rs. 4,500 but not exceeding Rs. 5,000.	Exceeding Rs. 5,000 but not exceeding Rs. 5,500.	Exceeding Rs. 5,500 but not exceeding Rs. 6,000.	Exceeding Rs. 6,000 but not exceeding Rs. 6,500.	Exceeding Rs. 6,500 but not exceeding Rs. 7,000.	Exceeding Rs. 7,000 but not exceeding Rs. 7,500.	Exceeding Rs. 7,500 but not exceeding Rs. 8,000.	Exceeding Rs. 8,000 but not exceeding Rs. 8,500.	Exceeding Rs. 8,500 but not exceeding Rs. 9,000.	Exceeding Rs. 9,000 but not exceeding Rs. 9,500.	Exceeding Rs. 9,500 but not exceeding Rs. 10,000.	Exceeding Rs. 10,000 but not exceeding Rs. 15,000.	Exceeding Rs. 15,000 but not exceeding Rs. 20,000.	Exceeding Rs. 20,000.	Total.
1st Division..	9	837	899	351	389	216	49	122	82	65	189	81	39	46	17	20	19	13	28	6	13	7	2	12	5	2	2	1	...	...	1	..	1	...	...	...	...	...	...	...	3,525
2nd do ...	1	320	670	432	876	880	337	688	600	385	1,002	340	191	109	10	22	17	5	18	3	3	5	4	3	1	1	1	...	...	1	...	...	2	...	...	...	...	...	3	1	...	6,931
3rd do ...	3	179	436	335	589	538	248	383	462	311	922	398	244	184	38	57	42	23	39	3	12	10	8	27	15	10	6	3	3	1	7	2	...	...	1	1	...	...	...	2	2	...	5,544
4th do ...	1	201	131	59	61	38	2	9	10	8	16	6	3	1	...	8	5	1	8	...	5	2	1	5	...	...	...	...	...	...	1	...	...	...	...	...	1	...	...	...	1	584
5th do ...	14	1,025	953	553	653	395	136	198	177	108	216	98	63	69	9	31	30	25	49	9	20	17	16	36	12	5	2	1	2	2	...	...	...	...	...	...	1	1	1	4,929
6th do ...	8	393	262	95	85	50	9	20	24	17	37	18	10	9	1	3	7	4	13	3	20	9	9	43	30	17	6	1	2	1	...	1	...	...	...	2	...	..	...	2	...	...	1,209
7th do ...	27	1,462	1,368	678	806	476	199	275	191	98	252	78	44	31	8	11	12	3	10	3	5	6	4	11	5	4	2	..	3	2	2	...	2	...	...	...	...	1	...	...	..	2	...	1	6,085
8th do ...	15	908	843	446	442	246	68	82	87	57	125	64	44	30	6	18	7	9	21	5	11	6	5	23	16	7	5	1	..	...	...	...	...	...	...	2	...	...	...	...	...	...	3,597
Total...	78	5,325	5,562	2,949	3,901	2,839	1,048	1,777	1,633	1,049	2,759	1,083	638	479	89	170	139	83	186	32	80	62	49	160	84	46	24	7	10	7	11	3	5	...	2	6	1	1	1	...	...	10	4	3	32,404

APPENDIX X.

Statement showing the extent of revision of House assessment for the year 1879, *compared with the three preceding years.*

Year.	Fresh assessments.	Increase of assessments.	Total exemptions.	Reductions other than those allowed by Committees on appeals.	Appeals admitted.	Number of sittings.	Result of Appeals.					
							Confirmed.			Reduction allowed		
							Fresh assessments.	Increase of assessments	Standing assessments	Fresh assessments.	Increase of assessments	Standing assessments
1876 ...	215	637	169	236	481	10	19	64	157	9	68	290
1877 ...	617	1,251	157	251	745	15	109	201	266	14	163	134
1878 ...	284	667	200	354	570	12	28	152	263	8	58	227
Total...	1,116	2,555	526	841	1,796	37	156	417	686	31	289	651
Average ...	372	851	175	280	598	12	52	139	228	10	96	217
1879 ...	168	206	177	56	*710	10	14	20	294	10	16	594

* Of the 710 appeals or 948 cases admitted and heard, 24 cases were against fresh assessments, 36 against increased assessments, and the remaining 888 against standing valuations.

APPENDIX XI.

Abstract of Demand, Remission, Collection, and Balance on account of House Tax, for the year 1879.

	1st Division.	2nd Division.	3rd Division.	4th Division.	5th Division.	6th Division.	7th Division.	8th Division.	Total.
	Rs. A. P.	Rs. A. P.	Rs. A. P.	Rs. A. P.	Rs. A. P.	Rs. A. P.	Rs. A. P.	Rs. A. P.	Rs. A. P.
DEMAND.									
Of arrears of and anterior to 1878 ...	1,081 0 8	4,026 4 8	3,720 13 5	1,728 8 0	3,559 7 5	1,936 0 1	2,911 1 1	2,595 2 4	*21,558 5 8
Less further reduction allowed as against ...	... ...	93 0 0	... ...	20 0 0	1 6 5	... ...	300 0 0	... ...	414 6 5
	1,081 0 8	3,933 4 8	3,720 13 5	1,708 8 0	3,558 1 0	1,936 0 1	2,611 1 1	2,595 2 4	21,143 15 3
Of 1879 ... 1st half year ...	15,493 14 3	33,383 13 0	42,673 4 4	4,900 9 8	25,965 8 5	15,240 3 1	22,763 8 1	14,474 1 6	1,74,894 14 4
Of 1879 ... 2nd half year ...	15,493 14 3	33,383 13 0	42,673 4 4	4,900 9 8	25,965 8 5	15,240 3 1	22,763 8 1	14,474 1 6	1,74,894 14 4
Total...	32,068 13 2	70,700 14 8	89,067 6 1	11,509 11 4	55,489 1 10	32,416 6 3	48,138 1 3	31,543 5 4	3,70,933 11 11
REMISSION.									
Against arrears of and anterior to 1878 ...	... ...	... ...	42 0 0	425 9 6	39 2 3	231 14 3	18 0 0	49 0 1	805 10 1
Against demand of 1879 ... 1st half ...	134 3 10	51 4 10	243 5 1	3 2 5	189 4 4	161 0 5	155 7 9	152 7 2	1,090 3 10
Against demand of 1879 ... 2nd half ...	72 12 6	29 8 11	234 15 8	15 0 0	272 1 2	201 4 2	111 4 1	201 0 10	1,137 15 4
Total...	207 0 4	80 13 9	520 4 9	443 11 11	500 7 9	594 2 10	284 11 10	402 8 1	3,033 13 3
REMISSION BY WAY OF REFUND									
In respect of arrears of and anterior to 1878...	321 2 4	39 3 11	441 4 8	22 0 8	167 7 11	209 4 2	279 6 4	368 12 9	1,848 10 9
Do. 1879... 1st half ...	94 2 2	91 5 2	239 4 9	35 7 0	146 10 5	206 14 5	14 11 8	230 8 4	1,058 15 11
Do. 1879... 2nd half ...	19 12 10	16 9 11	21 8 8	15 0 0	40 6 9	37 6 11	2 1 7	69 10 0	222 8 8
Total...	435 1 4	147 3 0	702 2 1	72 7 8	354 9 1	453 9 6	296 3 7	668 15 1	3,130 3 4
COLLECTION LESS REFUND.									
On account of arrears of and anterior to 1878	265 4 11	2,753 3 8	2,581 5 2	859 15 7	1,811 14 7	1,004 0 0	973 10 5	620 14 7	10,870 4 11
Do. Demand of 1879... 1st half ...	14,628 3 2	32,843 15 7	41,451 7 7	4,773 0 4	24,765 15 10	14,420 13 2	22,005 15 2	13,715 5 4	1,68,604 12 2
Do. Demand of 1879... 2nd half ...	12,061 10 6	31,029 0 7	37,653 14 8	4,733 15 6	23,023 6 5	14,051 3 11	21,008 6 11	12,702 5 4	1,56,263 15 10
Total...	26,955 2 7	66,626 3 10	81,686 11 5	10,366 15 5	49,601 4 10	29,476 1 1	43,988 0 6	27 038 9 3	3,35,739 0 11
BALANCE.									
In respect of arrears of and anterior to 1878...	494 9 5	1,140 13 1	656 3 7	400 14 3	1,539 8 3	490 13 8	1,340 0 4	1,556 6 11	7,619 5 6
Do. Demand of 1879 ... 1st half ...	637 5 1	397 3 5	739 2 11	88 15 11	863 9 10	451 7 1	587 5 6	375 12 8	4,146 14 5
Do. Demand of 1879 ... 2nd half ...	3,339 10 5	2,308 9 7	4,762 13 4	136 10 2	2,629 10 1	950 4 1	1,641 11 6	1,501 1 4	17,270 6 6
Total...	4,471 8 11	3,846 10 1	6,158 3 10	626 8 4	5,032 12 2	1,892 8 10	3,569 1 4	3,433 4 11	29,030 10 5
OVERPAYMENTS HELD IN SUSPENSE.									
In respect of arrears of and anterior to 1878...	... ...	... ...	27 4 3	... ...	... ...	1 14 9	1 1 4	1 12 2	32 0 6
Do. 1879 ... 1st half ...	16 8 1	5 1 7	12 7 7	... ...	10 11 4	2 11 3	3 8 0	11 10 5	62 10 3
Do. 1879 ... 2nd half ...	... ...	... ...	... ...	... ...	0 12 0	... ...	1 7 2	3 4 10	5 8 0
Total...	16 8 1	5 1 7	39 11 10	... .	11 7 4	4 10 0	6 0 6	16 11 5	100 2 0

* The difference of Rs. 156-3-0 between this and the balance exhibited in the Administration Report of 1878 has arisen from an adjustment of old accounts.

APPENDIX XII.

Statement showing the Demand, Remission, Collection and Balance of House Tax for the year 1879 *as compared with the three preceding years.*

	Demand.			Remission.			Collection.			Balance.		
	RS.	A.	P.	RS.	A.	P.	RS.	A.	P.	RS.	A.	P.
For the year 1876...	3,41,608	0	0	7,000	0	0	2,95,939	0	0	38,669	0	0
Do. 1877...	3,48,730	0	0	2,177	0	0	3,09,070	0	0	37,483	0	0
Do. 1878...	3,52,426	0	0	3,755	0	0	3,31,889	0	0	16,782	0	0
Total...	10,42,764	0	0	12,932	0	0	9,36,898	0	0	92,934	0	0
Average ...	3,47,588	0	0	4,311	0	0	3,12,299	0	0	30,978	0	0
1879...	3,49,790	0	0	3,510	0	0	3,24,869	0	0	21,411	0	0
Increase ...	2,202	0	0	:...	...	...	12,570	0	0	.....	...	...
Decrease ...	.....	...	...	801	0	0	.....	...	...	9,567	0	0

APPENDIX XIII.

Abstract of Demand, Remission, Collection and Balance on account of Water Tax, for the year 1879.

	1st Division.	2nd Division.	3rd Division.	4th Division.	5th Division.	6th Division.	7th Division.	8th Division.	Total.
DEMAND.	Rs. A. P.	Rs. A. P.	Rs. A. P.	Rs. A. P.	Rs. A. P.	Rs. A. P.	Rs. A. P.	Rs. A. P.	Rs. A. P.
Of 1879... 1st half 1879 ...	5,880 6 9	13,219 8 9	16,993 1 4	1,886 15 10	9,993 11 6	5,956 11 0	8,539 15 4	5,441 15 7	67,912 6 1
2nd half 1879 ...	5,880 6 9	13,219 8 9	16,993 1 4	1,886 15 10	9,993 11 6	5,956 11 0	8,539 15 4	5,441 15 7	67,912 6 1
Total...	11,760 13 6	26,439 1 6	33,986 2 8	3,773 15 8	19,987 7 0	11,913 6 0	17,079 14 8	10,883 15 2	1,35,824 12 2
REMISSION.									
Against demand of 1879... 1st half ...	53 11 1	20 5 1	97 4 7	1 4 2	75 8 7	68 14 9	62 2 9	60 10 6	439 13 6
2nd half ...	28 15 10	11 12 11	93 11 5	6 0 0	108 13 0	80 8 0	44 5 6	80 6 8	454 9 4
Total...	82 10 11	32 2 0	191 0 0	7 4 2	184 5 7	149 6 9	106 8 3	141 1 2	894 6 10
REMISSION BY WAY OF REFUND.									
In respect of 1879 ... 1st half ...	37 10 4	36 2 7	95 10 1	14 2 10	53 10 6	78 3 8	5 2 9	92 3 1	417 13 10
2nd half ...	7 14 8	6 7 1	8 9 8	6 0 0	16 2 8	14 15 7	0 13 5	27 13 7	88 12 8
Total...	45 9 0	42 9 8	104 3 9	20 2 10	74 13 2	93 3 3	6 0 2	120 0 8	506 10 6
COLLECTION LESS REFUND.									
On account of 1879 ... 1st half ...	5,542 8 9	12,997 11 10	16,416 14 9	1,846 1 6	9,521 0 2	5,405 14 5	8,263 12 3	5,054 1 7	65,048 1 3
2nd half ...	4,436 15 11	12,286 10 5	14,980 9 1	1,830 13 9	8,821 3 11	5,315 12 8	7,870 7 3	4,722 2 9	60,264 11 9
Total...	9,979 8 8	25,284 6 3	31,397 7 10	3,676 15 3	18,342 4 1	10,721 11 1	16,134 3 6	9,776 4 4	1,25,312 13 0
BALANCE.									
In respect of 1879 ... 1st half ...	246 8 7	165 5 3	883 3 11	25 7 4	338 8 3	403 10 2	208 13 7	235 0 5	2,006 9 6
2nd half ...	1,406 8 4	914 10 4	1,910 3 2	44 2 1	1,047 7 11	545 6 9	624 5 2	611 8 7	7,104 4 4
Total...	1,653 0 11	1,079 15 7	2,293 7 1	69 9 5	1,386 0 2	949 0 11	833 2 9	846 9 0	9,110 13 10
OVERPAYMENTS HELD IN SUSPENSE.									
On account of 1879 ... 1st half ...	6 9 6	0 15 4	2 6 6	... ...	3 5 8	0 10 7	1 1 11	3 9 6	18 11 0
2nd half ...	... ...	... ...	... ...	... ...	... ...	... ...	1 0 0	1 5 1	2 5 1
Total...	6 9 6	0 15 4	2 6 6	... ...	3 5 8	0 10 7	2 1 11	4 14 7	21 0 1

APPENDIX XIV.

Abstract of Demand, Remission, Collection and Balance on account of Lighting Tax for the year 1879.

	1st Division.	2nd Division.	3rd Division.	4th Division.	5th Division.	6th Division.	7th Division.	8th Division.	Total.
DEMAND.	Rs. A. P.	Rs. A. P.	Rs. A. P.	Rs. A. P.	Rs. A. P.	Rs. A. P.	Rs. A. P.	Rs. A. P.	Rs. A. P.
Of 1879... 1st half 1879 ...	1,838 4 3	4,132 4 7	5,311 2 4	589 12 9	3,123 10 6	1,861 10 5	2,669 11 9	1,701 4 2	21,227 12 9
2nd half 1879 ...	1,838 4 3	4,132 4 7	5,311 2 4	589 12 9	3,123 10 6	1,861 10 5	2,669 11 9	1,701 4 2	21,227 12 9
Total...	3,676 8 6	8,264 9 2	10,622 4 8	1,179 9 6	6,247 5 0	3,723 4 10	5,339 7 6	3,402 8 4	42,455 9 6
REMISSION.									
Against demand of 1879... 1st half ...	16 12 4	6 5 3	30 6 1	0 6 3	23 9 8	20 2 0	19 6 8	18 15 2	135 15 5
2nd half ...	9 0 10	3 11 0	29 3 10	1 14 0	33 15 10	25 2 7	13 13 8	25 2 2	141 15 11
Total...	25 13 2	10 0 3	59 9 11	2 4 3	57 9 6	45 4 7	33 4 4	44 1 4	277 15 4
REMISSION BY WAY OF REFUND.									
In respect of 1879 ... 1st half 1879 ...	11 12 0	11 4 6	30 0 5	4 6 10	18 5 2	26 14 7	1 9 8	28 13 0	133 2 2
2nd half 1879 ...	2 8 6	2 0 2	2 11 0	1 14 0	5 0 10	4 10 10	0 4 2	8 11 2	27 12 8
Total...	14 4 6	13 4 8	32 11 5	6 4 10	23 6 0	31 9 5	1 13 10	37 8 2	160 14 10
COLLECTION LESS REFUND.									
On account of 1879 ... 1st half ...	1,734 2 4	4,057 8 0	5,130 6 10	576 14 6	2,979 10 4	1,757 8 10	2,583 1 1	1,608 12 8	20,428 0 7
2nd half ...	1,421 12 11	3,839 3 9	4,683 1 2	572 4 2	2,762 13 4	1,713 12 3	2,459 7 0	1,481 15 2	18,934 5 9
Total...	3,155 15 3	7,896 11 9	9,813 8 0	1,149 2 8	5,742 7 8	3,471 5 1	5,042 8 1	3,090 11 10	39,362 6 4
BALANCE.									
In respect of 1879... 1st half ...	75 9 7	57 2 10	120 5 0	8 1 2	102 1 4	57 1 0	65 10 4	44 11 4	530 10 7
2nd half ...	404 14 0	287 5 8	596 2 4	13 12 7	321 12 6	118 0 9	196 2 11	185 7 8	2,123 10 5
Total...	480 7 7	344 8 6	716 7 4	21 13 9	423 13 10	175 1 9	261 13 3	230 3 0	2,654 5 0
OVERPAYMENTS HELD IN SUSPENSE.									
On account of 1879... 1st half ...	2 0 5	0 4 10	1 2 0	... ...	1 0 9	0 3 4	0 5 7	1 2 2	6 3 1
2nd half ...	... ...	... ...	... ...	... ...	... ...	.. ..	0 5 0	0 6 7	0 11 7
Total...	2 0 5	0 4 10	1 2 0	... ...	1 0 9	0 3 4	0 10 7	1 8 9	6 14 8

APPENDIX XV.

Vehicles on springs and Animals assessed for the half-year ending 30th June 1879.

Division.	4-wheeled carriages drawn by 2 horses.	Amount.	4-wheeled carriages drawn by 1 horse.	Amount.	2-wheeled carriages.	Amount.	Horses over 13 hands.	Amount.	Horses under 13 hands.	Amount.	Horses under 11 hands.	Amount.	Bullocks or bulls.	Amount.	Male buffaloes.	Amount.	Asses.	Amount.	Dogs.	Amount.	Persons charged.	Total amount.
		Rs. A.		Rs. A.		Rs. A.		Rs. A.		Rs. A.		Rs. A.		Rs. A.		Rs. A.		Rs. A.		Rs. A.		Rs. A.
1	10	100 0	119	595 0	138	414 0	92	460 0	106	159 0	17	8 8	418	209 0	11	5 8	9	2 4	61	30 8	428	1,983 12
2	7	70 0	157	785 0	184	552 0	77	385 0	169	253 8	29	14 8	415	207 8	...	... ..	...	... ...	21	10 8	442	2,278 0
3	10	100 0	248	1,240 0	160	480 0	167	835 0	171	256 8	38	19 0	350	175 0	...	... ...	...	... ...	24	12 0	467	3,117 8
4	...	....	38	190 0	28	84 0	24	120 0	24	36 0	13	6 8	99	49 8	1	0 8	2	0 8	27	13 8	105	500 8
5	28	280 0	287	1,435 0	118	354 0	271	1,355 0	113	169 8	24	12 0	314	157 0	2	1 0	4	1 0	156	78 0	544	3,842 8
6	76	760 0	222	1,110 0	46	138 0	300	1,500 0	111	166 8	14	7 0	186	93 0	...	... ...	8	2 0	111	55 8	302	3,832 0
7	34	340 0	198	990 0	306	918 0	276	1,380 0	249	373 8	36	18 8	440	220 0	1	0 8	16	4 8	37	18 8	665	4,263 0
8	54	540 0	122	610 0	144	432 0	161	805 0	124	186 0	31	15 0	286	143 0	...	... ...	3	0 12	67	33 8	462	2,765 12
Total...	219	2,190 0	1,391	6,955 0	1,124	3,372 0	1,368	6,840 0	1,067	1,600 8	202	101 0	2,508	1,254 0	15	7 8	44	11 0	504	252 0	3,415	22,583 0

APPENDIX XVI.

Vehicles on springs and Animals assessed for the half-year ending 31*st December* 1879.

Division.	4-wheeled carriages drawn by 2 horses.	Amount.			4-wheeled carriages drawn by 1 horse.	Amount.			2-wheeled carriages.	Amount.			Horses over 13 hands.	Amount.			Horses under 13 hands.	Amount.			Horses under 11 hands.	Amount.			Bullocks or bulls.	Amount.			Male buffaloes.	Amount.			Asses.	Amount.			Dogs.	Amount.			Persons charged.	Total amount.		
		Rs.	A.			Rs.	A.			Rs.	A.			Rs.	A.			Rs.	A.			Rs.	A.			Rs.	A.			Rs.	A.			Rs.	A.			Rs.	A.			Rs.	A.	
1	15	150	0		127	635	0		120	360	0		102	510	0		104	156	0		17	8	8		364	182	0		6	3	0		...	...	...		48	24	0		391	2,028	8	
2	5	50	0		151	755	0		157	471	0		83	415	0		124	186	0		21	10	8		324	162	0		...	...	...		...	...	...		11	5	8		412	2,055	0	
3	11	110	0		221	1,105	0		155	465	0		172	860	0		163	244	8		32	16	0		310	155	0		...	...	...		...	...	...		31	15	8		430	2,971	0	
4	...	...	...		34	170	0		27	81	0		28	140	0		28	42	0		5	2	8		105	52	8		...	...	...		3	0	12		22	11	0		107	499	12	
5	29	290	0		277	1,385	0		120	360	0		252	1,260	0		143	214	8		19	9	8		277	138	8		...	...	...		6	1	8		160	80	0		531	3,739	0	
6	72	720	0		191	955	0		49	147	0		291	1,455	0		74	111	0		9	4	8		187	93	8		...	...	...		...	...	...		93	46	8		261	3,532	8	
7	29	290	0		188	940	0		297	891	0		246	1,230	0		243	364	8		36	18	0		408	204	0		1	0	8		18	4	8		49	24	8		611	3,967	0	
8	22	220	0		121	605	0		145	435	0		116	580	0		128	192	0		22	11	0		295	147	8		5	2	8		1	0	4		52	26	0		422	2,219	4	
Total...	183	1,830	0		1,310	6,550	0		1,070	3,210	0		1,290	6,450	0		1,007	1,510	8		161	80	8		2,270	1,135	0		12	6	0		28	7	0		466	233	0		3,165	21,012	0	

APPENDIX XVII.

Abstract of Assessment of Tax on Vehicles on Springs and Animals for 1879, *compared with* 1876-77 *and* 1877-78.

	4-wheeled carriages drawn by 2 horses.		4-wheeled carriages drawn by 1 horse.		2-wheeled carriages.		Horses over 13 hands.		Horses under 13 hands.		Elephants.		Ponies under 11 hands.		Bullocks or Bulls.		Buffaloes.		Asses.		Dogs.		Total amount.	
	No.	Amount.	No.	Amount.	No.	Amount.	No.	Amount.	No.	Amount.	No.	Amount.	No.	Amount.	No.	Amount.	No.	Amount.	No.	Amount.	No.	Amount.		
		Rs.		Rs.		Rs.		Rs.		Rs.		Rs.		Rs.		Rs.		Rs.		Rs.		Rs.	Rs.	A.
For 1876-77 ...	444	3,996	2,815	12,667½	2,310	6,930	2,989	13,450½	2,285	3,427½	2	24	477	238½	6,298	3,149	44	22	109	27¼	1,261	630½	44,562	12
1877-78 ...	411	3,699	2,804	12,618	2,133	6,399	2,842	12,789	2,171	3,256½	2	24	407	203½	5,273	2,636½	17	8½	94	23½	1,092	546	42,203	8
Total...	855	7,695	5,619	25,285½	4,443	13,329	5,831	26,239½	4,456	6,684	4	48	884	442	11,571	5,785½	61	30½	203	50¾	2,363	1,176½	86,766	4
Average...	428	3,852	2,810	12,645	2,222	6,666	2,916	13,122	2,228	3,342	2	24	442	221	5,786	2,893	31	15½	102	25¼	1,117	588½	43,394	8
For 1879 ...	402	4,020	2,701	13,505	2,194	6,582	2,658	13,290	2,074	3,111	...	...	363	181½	4,778	2,389	27	13½	72	18	970	485	43,595	0
More...	...	168	...	860	...	...	...	168	...	...	...	...	...	...	...	...	...	...		...	...	...	200	8
Less...	...	...	...	...	...	84	...	...	...	231	...	24	...	38½	...	504	...	2	...	7¼	...	108½	...	...

APPENDIX XVIII.

Vehicles on springs and Animals licensed for the year 1879.

Divisions.	4-wheeled carriages drawn by 2 horses.	Amount.		4-wheeled carriages drawn by 1 horse.	Amount.		2-wheeled carriages.	Amount.		Horses over 13 hands.	Amount.		Horses under 13 hands.	Amount.		Horses under 11 hands.	Amount.		Bullocks or bulls.	Amount.		Male buffaloes.	Amount.		Asses.	Amount.		Dogs.	Amount.		Total amount.	
		Rs.	A.		Rs.	A.		Rs.	A.		Rs.	A.		Rs.	A.		Rs.	A.		Rs.	A.		Rs.	A.		Rs.	A.		Rs.	A.	Rs.	A.
For First half of 1879 ...	199	1,990	0	1,374	6,870	0	1,110	3,330	0	1,325	6,625	0	1,047	1,570	8	236	118	0	2,417	1,208	8	9	4	8	42	10	8	554	277	0	22,005	0
For Second half of 1879.	178	1,780	0	1,278	6,390	0	1,037	3,111	0	1,240	6,200	0	1,001	1,501	8	204	102	0	2,253	1,126	8	8	4	0	30	7	8	511	255	8	20,478	0
Total...	377	3,770	0	2,652	13,260	0	2,147	6,441	0	2,565	12,825	0	2,048	3,072	0	440	220	0	4,670	2,335	0	17	8	8	72	18	0	1,065	532	8	42,483	0

APPENDIX III.

APPENDIX XIX.

Statement of Taxes on Vehicles on springs and Animals collected in 1879, *compared with* 1876-77 *and* 1877-78.

Period.		Collections.								
		Arrears.			Current.			Total.		
		Rs.	A.	P.	Rs.	A.	P.	Rs.	A.	P.
1876-77		2,505	4	0	38,295	0	0	40,800	4	0
1877-78		1,896	0	0	35,447	8	0	37,343	8	0
Total...		4,401	4	0	73,742	8	0	78,143	12	0
Average		2,200	10	0	36,871	4	0	39,071	14	0
1879		409	0	0	42,464	8	0	42,873	0	0
Difference.	More	.....	...	...	5,593	4	0	3,801	2	0
	Less	1,791	10	0	.....	...	...	.....	...	...

APPENDIX XX.

Carriages and Animals compounded for during 1879, *compared with those of* 1875, 1876 *and* 1877.

	4-wheeled carriages on springs drawn by 2 horses.	Amount.		4-wheeled carriages drawn by 1 horse.	Amount.		2-wheeled carriages.	Amount.		Horses over 13 hands.	Amount.		Horses under 13 hands.	Amount.		Ponies under 11 hands.	Amount.		Bulls or bullocks.	Amount.		Buffaloes.	Amount.		Asses.	Amount.		Dogs.	Amount.		Total amount.	
	No.	Rs.	A.	No.	Rs.	A.	No.	Rs.	A.	No.	Rs.	A.	No.	Rs.	A.	No.	Rs.	A.	No.	Rs.	A.	No.	Rs.	A.	No.	Rs.	A.	No.	Rs.	A.	No.	Rs.	A.
For 1875 ...	18	162	0	43	193	8	141	423	0	49	228	0	111	163	8	17	8	8	77	38	8	...	...	...	...	...	...	...	...	...	1,209	8
For 1876 ...	16	144	0	35	157	8	109	327	0	40	228	0	74	111	0	11	5	8	56	28	0	...	..	...	...	...	...	...	...	...	993	8
For 1877 ...	15	135	0	23	94	8	80	240	0	38	171	0	54	81	0	8	4	0	42	21	0	...	...	...	...	...	...	6	3	0	749	8
Total...	49	441	0	101	445	8	330	990	0	136	627	0	239	355	8	36	18	0	175	87	8	...	...	...	...	...	...	6	3	0	2,952	8
Average...	16	144	0	34	153	0	110	330	0	45	202	8	80	114	0	12	6	0	58	29	0	...	...	...	...	...	...	2	1	0	979	8
For 1879 ...	13	130	0	38	190	0	116	348	0	47	235	0	76	114	0	17	8	8	55	27	8	...	...	...	...	...	...	...	...	...	1,053	8
More...	...	...	...	4	...	...	6	...	...	2	...	...	...	...	...	5	...	...	...	...	...	...	...	...	...	...	...	...	...	...	74	8
Less...	3	...	...	...	...	...	...	...	...	...	...	...	4	...	...	...	...	...	3	...	...	...	...	...	...	...	...	...	...	...	...	...

APPENDIX XXI.

Classified abstract of Liquor shops assessed for 1879.

Locality.	Beer, Wines & Spirits Shops. Assessed in Class.					Puttai Arrack Shops. Assessed in Class.					Colombo Arrack Shops. Assessed in Class.					Toddy Shops. Assessed in Class.					Total. Class.					Amount assessed.	Population.	Rates of Population to each shop.
	I.	II.	III.	IV.	Total.	I.	II.	III.	IV.	Total.	I.	II.	III.	IV.	Total.	I.	II.	III.	IV.	Total.	I.	II.	III.	IV.	Total.			
1st Divn.	...	3	...	...	3	...	1	2	5	8	1	1	1	...	3	...	...	28	55	83	1	5	31	60	97	1,820	65,547	676
2nd do.	...	14	...	...	14	1	1	4	...	6	4	6	...	...	10	...	20	...	...	20	5	41	4	...	50	2,525	75,326	1,507
3rd do.	4	50	...	...	54	1	1	1	2	5	...	8	2	2	12	...	28	...	...	28	5	87	3	4	99	4,848	50,957	515
4th do.	...	...	...	...	...	..	...	1	1	2	..	...	1	...	1	..	...	1	12	13	..	...	3	13	16	231	9,791	612
5th do.	...	10	...	...	10	...	...	5	6	11	...	4	5	2	11	...	3	19	29	51	...	17	29	37	83	2,019	65,491	789
6th do.	...	11	...	...	11	...	...	1	1	2	...	...	...	...	...	...	1	2	7	10	...	12	3	8	23	771	19,390	843
7th do.	4	6	...	...	10	...	...	1	10	11	...	3	6	1	10	...	5	8	32	45	4	14	15	43	76	1,891	69,568	915
8th do.	..	4	...	...	4	...	...	...	8	8	...	1	1	...	2	...	...	..	52	52	...	5	1	60	66	995	41,482	629
Total ..	8	98	...	...	106	2	3	15	33	53	5	23	16	5	49	...	57	53	187	302	15	181	89	225	510	15,100	3,97,552	6,486

APPENDIX XXII.

Statement af Liquor shops assessed for 1879, *compared with* 1876, 1877 *and* 1878.

Period.	Beer, &c., Shops.	Puttai Arrack Shops.	Colombo Arrack Shops.	Toddy Shops.	Total.
1876 ...	101	55	49	299	504
1877 ...	99	53	48	298	498
1878 ...	107	54	52	297	510
Total...	307	162	149	894	1,512
Average...	102	54	50	298	504
1879 ...	106	53	49	302	510

APPENDIX XXIII.

Statement of Demand, Remission, Collection and Balance of Liquor Tax for 1879, *compared with those of* 1876, 1877 *and* 1878.

Period.	Demand.	Remission up to 31st December 1879.	Collection up to 31st December 1879.	Balance.
1876	11,521	152	10,439	930
1877	11,372	38	11,101	233
1878	11,593	90	10,964	539
Total...	34,486	280	32,504	1,702
Average...	11,495	93	10,835	567
1879	15,100	32	13,196	1,578

APPENDIX IV.

PUBLIC WORKS AND CONSERVANCY DEPARTMENTS.

MUNICIPAL OFFICE,
PUBLIC WORKS AND CONSERVANCY DEPARTMENTS,
MADRAS, *February* 1880.

From

J. A. JONES, ESQ.,
Vice President.

To

L. R. BURROWS, ESQ.,
President.

SIR,

The year now concluded was the first during which the affairs of the city of Madras were regulated by the new Municipal Act V of 1878, and accordingly it has been one which has thrown many further burdens and imposed fresh responsibilities on this department. It has been a year in which we have had carefully to feel our way, so that while using any new powers conferred on us, the results of our action might fall as lightly as possible on the rate-payers.

Notwithstanding this however, I regret to say that we have not met with uniform support in our efforts to improve sanitary matters in the city, and in fact have met with considerable opposition.

The conservative ideas, as well as the habits of the native community, have been in some instances the great obstacles, and no doubt it must take considerable time to carry to completion and perfection any schemes of sanitation which might be devised to ameliorate public health and public convenience.

In many matters, however, it would seem that we have been acting, as it were, *ultra vires*, and as many cases in dispute were carried to the various Courts in the city, this added another obstacle and further delayed some of the actions of this department.

No doubt such circumstances were to be expected in following the introduction of a new Municipal Act, and if less has been done during the year than might have been expected, allowance must be made for the difficulties which were encountered.

The chief works to which this department turned its attention during the year were as follows :—

The Improvement of Drainage.
Do. of Water Supply.
Do. of Public and Private Markets.

The collection of night-soil from private houses, &c.
Improvement of Parcherries.
Extension of Sewage Farms.
Storage of Inflammable Oils.

PUBLIC WORKS AND CONSERVANCY DEPARTMENTS.

DRAINAGE SCHEME.

It will be remembered that in June 1878 a sketch of a scheme for the drainage of Black Town was submitted to Government after being approved of by the Commissioners. The Government passed the following order:—

Order, 6th August 1879, *No.* 1506.

"In their Proceedings, 11th July 1878, No. 1212, the Government informed the Commissioners that the drainage scheme for Black Town, proposed by Mr. Jones would be considered by them along with Mr. Clarke's scheme, regarding which the Commissioners in their Proceedings, 19th December 1877, had stated their opinion that it was too costly and also unsuited to the requirements of the city. Later in their order, 18th January 1879, No. 82, the Government stated that orders would be passed on the above schemes.

2. The Commissioners now submit an application for a loan of 3,00,000 Rupees for an extension of the works for the distribution of water in the city. His Grace the Governor in Council however considers that it would be unadvisable to forward an application for a loan for carrying out works which would be incomplete; the one object which would justify a considerable Government loan under existing circumstances is a radical improvement in the drainage system of the city. Apart from this most important consideration, His Grace in Council considers it would be useless to submit to the Government of India, proposals for a loan for a partial extension of the water arrangements, and will not therefore transmit this application until a complete scheme for the drainage, as well as for the extension of water-distribution, has been submitted for his approval. He concurs with the Commissioners in thinking that Mr. Clarke's proposals are unsuited to the requirements of the city, and is of opinion that Mr. Jones' prospectus for the surface drainage of Black Town may be favourably entertained. It will, however, be necessary that complete plans and estimates should be framed.

3. As it is doubtful whether an application to the Government of India for a large loan will succeed in the present financial condition of the country, the Commissioners will also take into consideration the question of raising the money in the market."

A sum had been entered in the Budget for preparing detailed plans and sections of that part of Black Town which lies between the esplanades and the Canal, and these were completed in September and submitted to Government, when the following order was passed:—

G. O., No. 2698*W* of 27*th October* 1879.

"The President of the Madras Municipality will convey to Mr. Jones the approval by Government of the care with which the details of the scheme of surface drainage have been worked out.

2. Endeavours will be made for placing at the disposal of the Financial Department an Officer of the Public Works Department for the purpose of examining the scheme and considering its suitability to the town. The Chief Engineer will arrange to submit for approval, as early as possible, the name of the Engineer whose services he proposes to make available for this duty.

3. In the meanwhile, with a view that the merits of the scheme of Mr. Jones may be actually tested, and looking to the fact that the area to which it is suggested at present to apply surface drainage is divided into several wholly

independent areas, the Government see no reason why one or more of these sections should not be at once taken up according to the plan submitted, by which means some knowledge of the exact cost, and the materials most suitable, would be promptly gained.

4. The Government would suggest the selection for these experiments of areas in which the drainage is proposed to be entirely surface, as they would still hope that plans may be devised for entirely dispensing with covered drains, excepting so far as concerns the crossings of streets.

5. With respect to the sewer near the hospital bridge, it is remarked that the hospital drainage has already been disconnected from it and diverted to purely surface drainage, so that the small area remaining, probably on further consideration, be similarly treated.

6. This order will be communicated to the President of the Municipality through the Financial Department."

With regard to para. 3 of the order, the specifications and estimates were prepared for a selected portion, and at the time I write (February 1880) the work is just about being begun. The question of the drainage of Black Town will now, I hope, receive a final settlement. The plans and sections for the remaining portions of it are pretty far advanced.

Before leaving this matter, it is but right that reference should be made to the remarks of the Army Sanitary Commissioner, dated 11th July 1879, which are as follows :—

" Nothing effectual had been done to remedy the foul state of the city and its subsoil, long ago described by the late Mr. Gover; into this unwholesome place thousands of suffering poor were crowded. It would have been a great benefit to them if they had been kept out of it ; together with the townspeople, they died in such numbers as to raise the general death-rate to nearly 10 per cent., and, nevertheless, one of the first statements made in the present report is the expression of a hope that the Government will not force the authorities to drain and sewer the city.

As will be presently seen, certain details of sanitary work had been done, but all they could accomplish, even if perfectly carried out, would leave the subsoil as it is.

For sweeping, removing dirt, clearing drains and public latrines, they employed during the year 987 men, women, boys and girls, and 300 carts with bullocks and drivers, and 87 peons. About 340,445 cartloads were removed in the year, and used for filling and reclaiming swampy land.

The annual cost of this work is £15,000, of which £203 was recovered by sales. Under the head " Main drain" occurs the following entry :—" About 6,000 cubic yards of solid matter was removed from the " Black Town main drain at a cost of Rs. 2,260-3-8." We have often called attention to this useless work and its cost. If the town were properly drained this item would disappear. A few public latrines have been put up, but in two divisions of the city, between 50,000 and 60,000 people have no latrine accommodation and have to resort elsewhere for natural purposes, and hence to fouling of the streets."

The first remark which it is necessary to make, is that the subsoil of the city is not in the state described by the late Mr. Gover; no doubt Mr. Gover believed

that he had reasons for making the remarks he did, but these were really without any foundation whatever, and what he took for "subsoil saturated with sewage," is what can be found all over Madras—nothing less than black sand mixed with a little clay, the sand being so fine as to have the character of tin sand. The subsoil is remarkably little polluted. Throughout the town there are drains of a kind, and as the houses with their backyards are paved, as a rule, except in parcherries and similar places, the water after use does to a very great extent reach the drains. In the most crowded portions of Madras there are underground drains of considerable length and capacity, to carry off storm and subsoil waters, though these are not fit for the purpose of carrying sewage; and this is one of the evils I propose to remedy.

The general features of my scheme for draining Madras are these:—

To provide open sewers along the streets for surface water, house-drainage, &c.

To provide sewers in the valleys and other necessary places to carry off the sewage alone, any storm waters being divided from it and carried to other outlets.

To improve the present sewers to make them more efficient for the carrying off of the storm and subsoil waters.

To pump the sewage collected and place it on land at some distance to the north of the town.

In addition to this, the house to house collection of night-soil and other conservancy arrangements, hereafter detailed, should make a marked improvement on the health of the town.

The main drain will not then receive sewage, but it will still receive a considerable quantity of road grit which, in fact, forms the greater part of the solid matter requiring to be cleared out of it at present. Unless a very radical improvement is made in the fall of this drain, and unless its outfall can be improved, I fear that even after Madras is well drained some annual cleaning to the drain will require to be done. At present it is found that we cannot keep the mouth of the drain open from its being continually blocked with sand, and because of the gases which evolve from it and which are perfectly unbearable to those who live in its vicinity, but after all sewage is diverted from it such latter nuisance will cease to exist, and when the present sewage drains which flow into it are improved, it may be possible to improve the gradient and the outfall, and investigations on this point are now being made.

The Commissioners have not, I believe, hesitated about draining the city, but have so regarding the adoption of any one scheme, and it was necessary that full investigation should be made, as the city could not bear the result of failure. The unsatisfactory state of Calcutta after the completion of its drainage was one of the causes which militated against the adoption of the late Mr. Clarke's scheme.

The water supply certainly needs improvement, but before this can be extended better drainage must exist. There is now, however, sufficient water in Black Town to enable the drainage now to be undertaken to be effectual.

PUBLIC WORKS CONSERVANCY DEPARTMENTS.

WATER SUPPLY.

The question of the water supply has been one which has repeatedly come before the Commissioners.

To extend the water supply over all the large area of what is included in the Municipal limits of the city of Madras would be impossible on account of the cost, and it would be at the same time injudicious, unprofitable and needless on account of the very scattered character of the population.

To what area therefore the water supply should be extended has been the question, and this, I think, has nearly received a solution ; and I have received orders to make an estimate for completing the scheme according to the requirements of the Act within this area, and at the same time to include the cost of substituting a closed pipe for the open channel which now conveys the water from the Red Hills to Madras.

MARKETS.

The improvements in public and private Markets has been one which has occupied a considerable portion of attention. The Act gave extended powers with regard to public and private Markets, and efforts were made to make improvements in both classes.

The Municipality purchased for Rs. 18,000 during the year the Smithfield Market, which has a central position for the western portion of Madras. A good market was much needed in this locality, the private markets here being of a very inferior description.

Before licenses were granted to any private market all these markets were inspected, and it was proposed to refuse licenses to those not fit for a market, but it was found that where the market could be made fit for a market, licenses had to be granted and order given for their repair; and I may say that extensive repairs are now being executed in all the markets thus called on.

In two cases it was found necessary to suppress the private markets on account of the position and construction, viz., one in Choolay and another in Trivatoor High Road.

The owners of both markets have refused to obey the order of the Commissioners, and the former has appealed to the High Court, which matter is still undecided.

The idea of building a new central market has been abandoned for the more politic idea of having smaller markets in such parts as they may be found to be necessary, or of purchasing markets which are in existence and improving them.

I can report with much satisfaction that the action of this department during the year has caused a very great improvement in the private markets of Madras, and further endeavours will be made to complete what has been so successfully begun.

NIGHT-SOIL COLLECTION.

Sections 307 and 308 of the Act made it imperative, first on account of the limited time, and also because all night-soil had to be removed in covered carts, that some separate system of the removal of night soil should be adopted.

The system in force in the 6th division during 1878 was extended to all houses and continued; this was explained in an Appendix to the Report for that year.

A system of removal was also adopted in the 2nd and 3rd divisions, and is being gradually extended to other divisions.

This removal has caused a considerable addition to the expenditure under conservancy ; and this will be noticed as a separate item in the accounts.

An endeavour to profit by the night-soil thus collected was made, and Messrs. Shaw and Winch paid for sometime 4 annas a cartload of about 14 c. ft. and manufactured the night-soil into manure for coffee estates. These experiments were unsuccessful owing to the large quantity of sand collected with the night-soil.

A Committee was then appointed to enquire into the matter and their report appears as an appendix. In it will be found a full account of the methods employed in the removal of night-soil and suggestions made for its utilization. Photographs of the carts employed will also be found in this report.

PARCHERRIES.

The question of the improvement of Parcherries was also attended to.

About 204 huts are now in course of removal from Cochrane Basin Road. This place was always a hot-bed of disease. The hut owners will receive compensation for their huts, and the ground will be levelled, the drainage improved, and the huts then again allowed to be built in regular lines.

The plans for the improvement of Tinnevelly settlement are ready, but no funds have been allotted for carrying out this much-called for improvement.

SEWAGE FARM.

The Triplicane sewage farm has been considerably extended during the year and the Kishnampett farm slightly.

A new farm was constructed in Royapooram where the sewage from the Tinnevelly settlement used to empty itself and thence run into a tank close at hand. The ground around was usually undescribably filthy. This place is now a very flourishing sewage farm, the cost of construction being little more than Rs. 1,000, and it now pays all its expenses with a large surplus.

ROBINSON'S PARK.

A large space of ground near the above Farm has been given over to a Committee for the purpose of forming a Park, and the receipts from the farm are being devoted to forming the Park. The sewage farm will form a portion of the Park when it is complete. A report regarding this Park will also be found further on. Dr. Thompson, C.I.E., who is the Secretary of the Park Committee, takes considerable trouble in its construction.

KEROSENE OIL.

Madras imports a large quantity of Kerosene oil, and its storage in crowded parts of the town in places not well suited for the purpose, called for serious attention.

A proposal was made to erect public stores, but no suitable site could be obtained during the year. The danger has now (February 1880) been obviated by the temporarily leasing of a large store-house apart from any houses for the purpose, where persons will be required to store any oil over 200 gallons in amount unless special places are provided for it by the owners. This matter belongs more particularly to this year (1880), and therefore further mention in this report is not called for.

These have been the chief calls on this department, and I shall now proceed to report on its administration in detail, making such further remarks as may be necessary.

PUBLIC WORKS CONSERVANCY DEPARTMENTS.

PUBLIC WORKS.

NEW WORKS.

In preparing the budget for 1879, Rupees 30,000 were originally allotted for such works as might be found necessary during the year. Government, however, called for a revision of the Budget and the greater part of this grant was excluded.

The following shews the total amount expended at the end of the year :—

Extension of Workshop.....	Rs.	1,184	2	2
Dust bin.....	,,	6	0	0
Wall Tax Road Cart-stand.....	,,	511	7	6
Drainage.....	,,	5,436	11	0
Water Supply.....	,,	13,131	15	2
Hydrants for Fire Engines.....	,,	4,447	0	0

The extension of the Workshop was much needed, and has been a considerable improvement as affording more covered space for the execution of work and repairs. Only one dust bin was erected, but this fact is capable of explanation. No grant was made eventually for dust bins and this one was urgently called for. It is not very creditable to report that only one dust bin was erected during the year when, as I reported in my last year's report, that 2,900 are still required, but such is due to no fault in this department, as no money was allotted for the purpose.

The cart-stand in Wall Tax Road is an improvement. Carts used to collect on open ground here and the place was of course not in a very sanitary condition. An area has now been fenced in and metalled with a slope towards an open drain. It has become a source of income; its revenue this year will amount to Rs. 880.

In well selected places more of these might be erected and conserved as they are a source of income to the Municipality.

DRAINAGE IN SATANA NAIK STREET, THACKER'S AND POONAPA MOODELLY STREET.

The amount of Rs. 5,436 spent on drainage is not one by which any considerable improvement to the town drainage could be effected, and I have on a previous occasion called attention to this expenditure which, though one urgently called for is not spent in a profitable manner. This annual expenditure at 6 per cent. represents Rs. 90,000, and had this amount been borrowed a considerable portion of the drainage could have been done. Steps are now being taken to put a complete scheme of drainage in hand for Black Town, and the above amount of Rs. 5,436 was spent as far as possible in other portions of the town than that shortly to be taken in hand.

I have already recapitulated generally the present position of the drainage question, and I trust that before another year passes away that some considerable portion will have been executed and money available for the remainder.

WATER SUPPLY.

The new works done under the heading of Water Supply I shall refer to when I take up "Water Works" as a whole, and I shall mention the "New Hydrants" in that portion of my report also.

LATRINES.

No additional latrines have been constructed this year, but four or five latrines have been enclosed by mud walls instead of bamboo mats, and this of course is a slight improvement. New latrines are sadly wanted and of an improved description, but this means extra labor and increased expense in construction, the former a permanent burden which can but ill be afforded.

Latrines, Dust Bins and Drainage are the works which are most urgently called for, and for these should larger amounts be allotted.

PUBLIC WORKS CONSERVANCY DEPARTMENTS.

MAINTENANCE.

The following were the amounts appropriated up to the end of the year:

Roads.....1,14,484
Buildings..... 4,436
Drainage..... 3,688

The tables included in this report fully shew the amount of work done on each road which was reformed or repaired. A separate table shews the amount spent on roads such as only received ordinary maintenance :—

Table No. 11 shews that the	M.	F.	Yards.			
Number of miles reformed was.....	47	5	200			
Number of squares.....		42,927·94				
The average cost per square was.....Rs.	2	2	5			
				Cost.		
The number of squares reformed, 6· thick was ...		835·85		RS.	A.	P.
Do. do. 5· do. ...		3,179 05				
Do. do. 4· do. ...		33,042·10		92,415	1	7
Do. do. 3· do. ...		3,773·94				
Do. do. 2· do. ...		2,097·00				
Total squares and total cost.....		42,927·94		92,415	1	7

giving the average cost as above.

The cost per square last year was ... ...Rs. 2 6 11
and the cost per mile last year was ... ... ,, 2,188 6 0

Deducting the length reformed, viz., 47m. 5ft. 200yds. miles, from the total of 271 miles maintained, the cost of pure maintenance this year was Rs. 92 per mile, as per items 4 to 9 of the following table :

		RS.	A.	P.	RS.	A.	P.
1.	Amount paid for work done on Estimate of 1879 during the year	92,054	3	2	...	...	...
2.	Do. unpaid... do. do. ...	360	14	5	...	...	...
3.	Do. for work done in 1879 on Estimates of 78-79	...	...	...	5,652	10	2
4.	Do. for levelling, &c., in 1879 on do. of 1879.	989	2	9	...	...	...
5.	Do. unpaid... do. do. ...	365	6	4	...	...	...
6.	Do. paid for materials used during the year for emergent repairs...	10,881	0	9	...	...	...
7.	Do. unpaid do. do. ...	2,469	7	3	...	...	...
8.	Do. paid for labour and sundries	4,168	11	8	...	...	...
9.	Do. unpaid do. do.	1,722	0	1	...	...	...
10.	Do. paid for materials used in 1878-79... ...	...	...	...	2,659	10	9
11.	Do. for labour and sundries...	...	...	...	1,345	8	5

As above the total for 1879 is Rs. 113,010-14-5 and the total of items, Nos. 1 and 2 is Rs. 92,415-1-7. The quantity of work done for this latter amount is as under :—

Thickness.	Number of squares of 100 square feet.	Length.		
		Miles.	F.	Yds.
Inch				
2	2,097·00	2	3	122
3	3,773·94	4	1	59
4	33,042·10	35	5	194
5	3,179·05	3	1	18
6	835·85	2	2	27
Total	42,927·94	47	5	200

This gives a rate per square of Rs. 2-2-5 against Rs. 2-6-11 for last year (1878) and per mile Rs. 1,935-13-8 against Rs. 2,188-6-0.

The cost of maintaining and reforming of the 271 miles was Rs. 422 per mile.

The Contractors during the year were—

1st and 3rd Divisions.....A Moonesawmy Moodelly.
2nd, 4th and 5th do. .....Ramasawmy Pillay and Veerasawmy Pillay.
6th, 7th and 8th do. .....P. Yellayalwar Naidoo.

I here insert a report which may be of some value as to the results, of an enquiry made into the composition and defects in our roads in reply to a Memorandum from you.

The conclusions come to in that report have been, after one or two trials, generally found correct with one exception, and that is, that the proportion between the clay and the gravel should be in the ratio of 2 to 3 instead of 3 to 2: in fact the proportion should be reverse. The following table shews the proportions which should in future be adopted for the roads.

Inches thick.	Parahs Laterite.	Gravel.	Clay.
6	21	7½	2½
4	14	5	1⅔
3	10½	3¾	1¼
2	7	2½	⅚

The following is the report above referred to :

"There is no doubt but that the roads, the liability period of which is now expiring, are in a worse state than they were at the end of former liability periods, and are thus less repairable, and that a less time lapses between the end of their liability and their reformation. This is accounted for thus :—first, that these roads were formed during the famine, at a time when traffic was very heavy, and part of their liability period was during such time; and, secondly, that the average of rainfall on which the durability of our roads so much depend was greatly below the average.

"To the deficient beating and rolling of the road may be due in some measure the short life of the roadway, and I have frequently called attention to this matter.

"The state of the roads does not depend entirely on the total of rainfall, but also in the manner in which it is distributed throughout the year.

"The rainfall has been thus during the last 9 years :—

Year.	Rainfall.	Days.	
1870 ...	74·10	98	
1871 ...	56·35	94	
1872 ...	73·77	110	
1873 ...	51·92	96	
1874 ...	62·90	105	
1875 ...	37·11	93	
1876 ...	21·60	73	
1877 ...	66·20	98	× of this about 23" fell in 23 hours.
1878 ...	24·48	71	

"It will be observed that the year 1878 was a very bad year, and that although the amount of rainfall in 1877 was 66·20, about 23" of this fell in 23 hours, so that

the remainder spread over the 97 days was very much below the average. 1876 again was a very bad year. An average quantity of rain spread over a large number of days keeps the roads in good condition. A large quantity of rain in a short time destroys the roads, and a small quantity spread over a large number of days of course renders them so dry that they break up very easily.

"There is no doubt this is the true reason of the short life of the roads now running out of liability.

"With reference to the other parts of your Memo. I think that some improvement is necessary with regard to the execution of road-works. I refer chiefly to laterite roads.

"The Contract (para. 9) states that the following are to be the proportions of materials (Table A) which are to be used in the construction of roads.

A

——	Thickness.	Laterite.	Gravel.	Clay.	Total.	Cubic inches in a square of each.	Quantity allowed by Municipality (Laterite only.)
Roads ...	6"	18	$\frac{3}{4}$	3	$21\frac{3}{4}$	86,400	72,000
Do. ...	4"	$12\frac{3}{8}$	$\frac{3}{4}$	$1\frac{3}{4}$	$14\frac{7}{8}$	57,600	49,500
Do. ...	3"	$8\frac{7}{8}$	$\frac{3}{4}$	$1\frac{1}{2}$	$11\frac{1}{8}$	43,200	35,500
Do. ..	2"	6	$\frac{3}{4}$	$1\frac{1}{4}$	8	28,800	24,000

"I am not aware on what principle the proportions were laid down, but it must be evident that the quantity necessary for a road should be in proportion to the thickness, and that therefore the laterite should be (say that the quantity for 6" is correct.)

6"	18 parahs
4"	12 ,,
3"	9 ,,
2"	6 ,,

but the 4" road has more than this proportion and the 3" has less.

"Then again it must, I presume, be supposed that the gravel and clay were intended to fill up the interstices left in laying down the laterite.

"From the quantities this apparently is not the case.

"The totals of gravel and clay in proportion to the laterite stand thus:—

	L	Total G. & C.	Proportion.
6"	18 ÷	$3\frac{3}{4}$ =	4·8 : 1
4"	$12\frac{3}{8}$ ÷	$2\frac{1}{2}$ =	5 : 1
3"	$8\frac{7}{8}$ ÷	$2\frac{1}{4}$ =	4 : 1
2"	6 ÷	2 =	3 : 1

Thus except, in a 6" road, the thinner the road a greater proportion of clay and gravel is used.

"If the clay and gravel are intended to be mixed throughout with the laterite this is evidently incorrect; if the clay and gravel are intended to be mixed with only the top layer of the road it is also evidently wrong, as then the total of clay and gravel would remain the same in all roads. Another point is that the same

amount of gravel is put for all roads and the amount of clay varies, but not in proportion to the thickness of the road thus : —

	L.	C.		Proportion.
6"	18	3	: :	6 : 1
4"	12⅜	1¾	: :	7 : 1
3"	8⅞	1½	: :	6 : 1
2"	6	1¼	: :	4·8 : 1

and so, except in 6" road, the thinner the road the greater the proportion of clay.

" It is evident that in every quantity of laterite laid down there is a certain proportion of space to be filled up with smaller material.

" The question is what is the proportion of space to be filled up.

" The D. P. W. roads have the following proportions :—

	L.	G.		
6"	18	9	or	2 to 1
4"	12	6	or	2 to 1
3"	9	4½	or	2 to 1

In the above no clay is used.

After a personal trial I find that the interstices per parah amount to 2,300 cubic inches or 4,000 to 2,300, say 2 to 1, and therefore the total of gravel and clay should amount to this.

Referring again to table A, it is necessary to point out that the quantity of laterite only can be calculated when taking the quantity of material required for the formation of a certain thickness of road. Giving the calculation in cubic inches as required and as allowed by the table, we have :—

Thickness of Road.	Quantity really required.		At present.	
	Laterite—cubic inches necessary.	Proportion of clay and gravel at half.	Quantity of laterite allowed cubic inches.	Thickness of road (*real*).
6" ...	86,400	43,200	72,000	5
4" ...	57,600	28,800	49,500	3½"
3" ...	43,200	21,600	35,000	2½"
2" ...	28,800	14,400	24,000	1⅝

" The first column shews the contents in a square of each thickness of road.

" The second the amount of gravel and clay required to consolidate the amount of laterite in column 1.

" The third column shows the amount of laterite at present used, and the 4th what thickness of road this would really give if it had a proper proportion of clay in it, but which at present is not the case.

" The proportion of gravel to clay is an important matter. Were the weather always of an average character it would be easily determined, but in this country there are long periods of drought and at other times sharp downfalls of rain. There is not often a long continuance of wet weather, and I am therefore of opinion that a larger proportion of clay might be used in the roads than at present with advantage.

"In a six-inch road a proportion of 4 clay to 1 gravel is used, and in a three-inch 2 to 1; probably a mean between these would be correct, and laying down the rule thus:—

"That the amount of laterite should in cubic capacity equal the amount in one square by its thickness. That the gravel and clay be in addition to this, and the total of the two be in proportion to one-half,* and that the clay be to the gravel as 3 to 1". We arrive at the following table:—

Road.	Cost without liability, new.	Cubic inches, laterite.	Parahs.	Cubic inches, gravel.	Parahs, gravel.	Cubic inches, clay.	Parahs, clay.	Cost of present road per square with liability.
	RS. A. P.				*		*	RS. A. P.
6"	3 1 10	86,400	21	10,800	$2\frac{1}{2}$	32,400	$7\frac{1}{2}$	2 9 0
4"	2 1 9	57,600	14	7,200	$1\frac{2}{3}$	21,600	5	1 14 11
3"	1 9 4	43,200	$10\frac{1}{2}$	5,400	$1\frac{1}{4}$	16,200	$3\frac{3}{4}$	1 11 4
2"	1 0 11	28,800	7	3,600	$\frac{5}{6}$	10,800	$2\frac{1}{2}$	0 13 1

"This would give a road really the thickness stated, and would give a truly homogeneous road which is a thing desired, so that it will wear evenly from top to bottom.

"Referring again to the agreement para. 9, it states that—

"The under layer is to consist of pieces weighing not more than $\frac{3}{4}$ of a lb., and the middle layer not more than $\frac{3}{8}$ of a lb., and the top layer of smaller pieces.

"Laterite does not usually split into square lumps but into pieces, the shapes of half cubes.

"If the laterite broke into square lumps the pieces would be about $2\frac{1}{4}$" square for the under layer and $1\frac{1}{4}$" for the upper. Now as laterite breaks into half cubical shapes, it is evident that if the Contractor kept strictly within his contract, the pieces in one layer only would extend above the surface of the road. The specified sizes are therefore much too large and a specification by size would be much better than a specification by weight. The size should vary with the thickness of the roads.

"I do not see the necessity in roads already formed of having pieces at the bottom of a different size from the other parts of the road, and it is evident that when the road has worn down to these large pieces, especially if the interstices between them was not properly filled, it would be no longer a fit road.

"I think no pieces of laterite which will not pass on any axis through a 2" ring should be allowed to be used.

"As due consolidation in addition to homogeneousness is one of the results to be desired in the construction, I believe that much heavier rollers than are at present in use are required. The slow and tedious method of rolling roads by rollers of a weight of about 3 tons, being dragged by a number of women needs to be superseded by much heavier rollers, 8 to 10 tons in weight, and driven by steam-

* This is found to give a very soft road in monsoon weather, and that it would be better to adopt the proportion of—gravel : clay :: 3 to 2. See table preceding report.

power, and I would therefore recommend that one be got out from England at the beginning of next year.

"The question of "liability" is one which will take a little more time to consider and report on, and as I wish to get the drainage scheme out of hands I will delay that question meantime.

26*th June* 1879. J. A. JONES.

"P.S.—I have omitted to state that all the present Road Contractors agree with me as regards the desirability of having more binding material in the roads."

J. A. J.

MEMO. BY PRESIDENT.

"In the above report Mr. Jones shows that the materials used by the Municipality for re-metalling the roads (laterite gravel and clay) are not applied in sufficient quantities to produce the thickness of metalling which is entered in the estimate. This, however, is a matter of no great importance, and could be put right if thought necessary by correcting our present assumed thickness so as to make them the same as the real; *e.g.*, our assumed 6-inch thickness of metalling might in future be called 5-inch, 4-inch, 3½-inch, and so on. I see no objection to this alteration being made when the present contracts are run out.

It is also shewn that the quantities of gravel and clay bears the following proportion to laterite in the different thicknesses at present assumed by the Municipality:—

Assumed thickness.	Gravel and Clay.		Laterite.
6"	1	:	4·8
4"	1	:	5
3"	1	:	4
2"	1	:	3

and Mr. Jones argues from a personal trial, that in order to fill up the interstices properly the proportions should be 1 of gravel and clay to 2 of laterite.

It is also recommended that an uniform proportion of 3 to 1 as between clay and gravel should be adopted for all thicknesses.

Mr. Jones goes on to point out another condition of our present agreement which he considers open to objection, and recommends that instead of the size of the pieces being limited by weight (to ¾ lb. for bottom layer) as at present, they should be limited by their size, and says that he does not "see the necessity of having the pieces at the bottom of a different size from the other parts of the road," and would have all the laterite so broken up as to pass through a 2" ring on any axis. Finally, Mr. Jones recommends the use of much heavier rollers.

Before committing the Municipality to a system of road-making so different from that now existing, and which is the result of great experience, I should prefer to see Mr. Jones' recommendation tried on a piece of road specially selected for the purpose, and which would afford a fair comparison with other roads reformed about the same time on the old system.

I quite agree in the recommendation that heavier rolling should be applied and it is intended to include in next year's budget, shortly to be laid before the Committee, the charge for a steam roller of 8 or 10 tons. I think it will very likely be found that the roller will suffice to make our roads all that they should be.

I fear that the large increases of gravel and clay proposed would be found very

conducive to slush in wet weather, and before any general addition is made to the proportion of these materials, I should like to see what the effect of breaking the laterite smaller would be. There is always a quantity of small stuff in laterite which runs very compactly when well beaten and watered.

In reforming the Poonamallee Road I shall be glad to see a portion (say 400 feet) repaired on the plan suggested by the Vice-President ; but for the remainder I prefer a 2" reform of the centre on the old plan, only insisting on the Contractor breaking the stones small according to his contract."

27th June 1879. L. R. BURROWS.

BUILDINGS.

Table Nos. 4 to 8 & 10 shows in detail the cost of maintenance of the several buildings noted; they are, as will be seen, chiefly Latrines, Toll-gates, Slaughter-houses, Dust Bins and Municipal Office.

DRAINS.

For the maintenance of existing drains Rs. 3,000 were allotted, but at the end of the year it had been found necessary to exceed this amount by Rs. 600 partly required for repairing the arch of the Triplicane Main drain which was found to be unsafe. The appropriations were :—

	Rs.	A.	P.
Black Town Main Drain	71	4	0
Triplicane	802	10	7
Street Drains	2,814	10	9
Total ...	3,688	9	4

TANKS AND WELLS.

For the repairs of tanks and wells Rs. 306-6-6 were appropriated, and Rs. 1,619-7-9 for the repairs of the fences along the banks of the Cooum : these are now in good repair.

PEOPLE'S PARK.

The following works were done in the People's Park out of the grant of Rs. 1,800 for that purpose.

	Rs.	A.	P.
Repairing gates	188	0	0
Do.	155	0	0
Bear enclosure	64	0	0
Rhinoceros enclosure	22	3	3
Repairing wooden bridge of wild animals' enclosures ...	166	0	0
Elephant shed	183	0	0
Bears' cage	565	0	0
Wicket gate at Vepery gate	23	0	0
Converting Elephant shed into Crocodile enclosure ...	136	0	0

CONSERVANCY.

The allotment for Conservancy was Rs. 2,09,379-0-0, and the amount paid during the year was 1,99,658.

The following table shews the staff employed.

Table showing the Conservancy Staff attached to each Division on the 31st December 1879.

Divisions.	Street Conservancy.																		House Conservancy.							
	Labour.											Bullocks.														
	Side Coolies.	Box Cartmen.	Cesspool Boys.	Sweepers.	Latrine Men.	Latrine Women.	Latrine Boys.	Latrine Girls.	R. D. Coolies.	Beach Coolies.	Hand Cartmen.	Bullock, Pairs.	Bullocks, Single.	Drivers.	Contractor's Carts Rubbish, Sewage and Latrine.	Municipal Box Carts.	Municipal Iron single Bullock Carts.	Municipal Barrel Carts drawn by Men.	Pairs of Bullocks.	Single Bullocks.	Drivers.	Coolies.	Contractor's Carts.	Municipal Box Carts.	Municipal Trollies.	Municipal S. B. Carts.
1st Division ...	47	4	7	30	18	14	1	1	4	...	...	42	2	44	41	1	2	...	...	...	...	...	...	...	...	...
2nd do. ...	44	23	13	44	10	8	...	...	...	...	...	70	...	70	70	...	...	...	12	...	12	24	...	...	12	...
3rd do. ...	43	21	15	39	15	2	1	1	...	6	...	61	1	62	61	...	1	...	10	...	10	24	...	...	10	...
4th do. ...	8	3	3	6	4	4	...	...	...	...	...	10	...	10	7	3	...	...	...	...	...	...	...	...	...	...
5th do. ...	49	16	18	34	24	17	...	...	...	...	6	51	3	54	49	2	3	4	...	...	...	...	...	...	...	...
6th do. ...	20	1	5	14	13	11	...	...	3	...	2	13	1	14	13	...	1	1	2	8	10	12	1	1	...	8
7th do. ...	49	22	26	46	17	9	1	2	1	1	...	68	3	71	65	3	3	...	...	...	...	...	...	...	...	...
8th do. ...	26	12	11	19	14	10	2	1	3	...	...	34	...	34	30	4	...	...	...	...	...	...	...	...	...	...
Total...	286	102	98	232	115	75	5	5	11	7	8	349	10	359	336	13	10	5	24	8	32	60	1	1	22	8

It will be noted that the system of house conservancy or daily collection of night-soil was being gradually introduced during the year, and that at the end of the year it was in force in 6th, the 2nd and 3rd Divisions.

The supervising establishment has not been increased with the exception of the peons.

It is not necessary to enter here into particulars regarding the collection of night-soil. The Committee's report, to which I have before alluded, seems to give sufficient information on the principal points which might be discussed.

It will be noticed that there was an increased allotment for conservancy during this year over the previous, the increase being Rs. 67,083. The chief reason for this increase was the establishment of the house-to-house night-soil collection.

CARTS.

During the year the Municipality built 10 iron box carts which were added to the force in use, and there were also built by contract 208 hand-carts and buckets of the description given in the report of the Night-Soil Committee; of these 176 were added to the force and 22 iron lorries for conveying the buckets when collected from these hand-carts were also constructed and put into use.

Photographs are attached of these lorries and hand-carts which makes further explanation as to the construction unnecessary—considerable attention was given during the latter part of 1878 as to what system and what class of carts it was advisable to adopt for the collection of night-soil, and after careful enquiry and calculation it was found that in sparsely populated districts the single bullock iron carts were best for crowded localities and the collection could be more cheaply made by men with hand-carts going through each street, and when the buckets were full taking them to places where lorries were centrally situated. Again sometime in 1879 it was found that as the night-soil depot was some distance from the town, and on the banks of the canal that the night-soil in the buckets could be transhipped into boats which take from 4 to 6 Lorrie-loads and more cheaply conveyed to the depot than by the lorries proceeding there themselves, and this system has now been advantageously in force for some time.

PUBLIC WORKS AND CONSERVANCY DEPARTMENTS.

RUBBISH AND NIGHT SOIL DEPOTS.

The following are the places for the reception of the filth of the town. During the year 3,69,779 carts of filth, &c., have been received and deposited as follows:—

The following Statement shows the places where Rubbish, Sewage and Latrine Carts have been depositing during the year 1879.

Places of Deposit.	Rubbish.	Silt.	Night soil.	Total.	Remarks.
Washermenpett Esplanade	18,611	...	...	18,611	
Breaches on Beach Road	... .	2,693	...	2,693	
Rubbish Shoot	29,524	390	16,725	46,639	
Rope Godown Parcherry	.....	2,851	...	2,851	
Lalagoontah Lane...	.....	1,193	...	1,193	
Wall Tax Road, Lowground.... ...	.....	14,686	...	14,686	
Basin Road	24,349	15,565	...	39,914	
Corookoopett	35,066	...	...	35,066	
Eadgah Mosque	.....	6,107	...	6,107	
Ettapoliam	.....	6,494	...	6,494	
Cuttivaukum Road....	3,687	...	...	3,687	
Mofuskhan's Gardens...	.....	4,518	..	4,518	
Brick-kiln Road, R. Depôt	41,220	8,216	8,477	57,913	
Perambore Slaughter House.... ...	917	...	...	917	
Lowgrounds	.....	6,849	...	6,849	
Manally Depôt	.....	...	1,007	1,007	
D'Mellow's Road Farm	.....	1,466	...	1,466	
People's Park	.. ...	749	...	749	
Low places in Choolay and Pursewaukum	. ....	8,510	...	8,510	
Do. in 5th D. South Ward... ...	.....	102	...	102	
Sterling's Road Depôt...	143	...	3,575	3,718	
Victoria Hotel Grounds	6,326	...	...	6,326	
Mackay's Parcherry...	1,380	...	...	1,380	
Munnarsawmy Covil...	.....	1,149	...	1,149	
Low places in Chintadripettah ...	.....	3,967	...	3,967	
Naval Hospital Road...	1,270	...	...	1,270	
Barber's Bridge, R. D...	29,424	...	6,875	36,299	
Tank behind Big Mosque	.....	10,541	...	10,541	
Chunam Tank	.....	216	...	216	
Low places in 7th D. South Ward ...	.....	216	...	216	
Kistnapillay's Garden	.....	156	...	156	
Ice House Road	.....	8,584	...	8,584	
Triplicane Nullah	.....	...	1,007	1,007	
Tank in Begum Saib Street	.....	5,208	...	5,208	
Low places in 8th D. North Ward ...	.....	3 ,813	...	3,813	
St. Thomé High Road, R. D.... ...	7,500	...	...	7,500	
Low places in 8th D. South Ward ...	.....	6,359	...	6,359	
Low places in 5th D. Centre Ward ...	.....	11,581	...	11,581	
Triplicane Sewage Farm	517	...	...	517	
Total...	199,934	132179	37,666	369,779	

PUBLIC WORKS AND CONSERVANCY DEPARTMENTS.

The expenditure and income of the Rubbish Depots are as follows:—

Locality.	Expenditure.			Income.		
	Rs.	A.	P.	Rs.	A.	P.
Munnally	3,081	15	8	1,802	12	0
Wall Tax Road	1,551	2	9			
Basin Road	519	4	5			
Barber's Bridge Road	982	7	8			
Brick Kiln	1,314	1	8	2,964	3	0
Sterling's Road	128	5	3	71	4	0
Victoria Hotel	199	0	6			
St. Thomé High Road	220	6	2			
Morgan's Cement Work	217	10	3	108	0	0
Mackey's Parchery	37	0	0			
Kistnampet	...	...	...	38	13	0
Robinson Park	350	7	0			
Washermanpettah Esplanade	367	14	5			
Other places	85	8	0			

CLEANING MAIN DRAINS.

The Black Town Main Drain was not cleaned during the year in consequence of the heavy rains which fell and scoured out the Drain. The Triplicane Main Drain from Pycroft's Road to Cooum River was cleaned in the usual manner at a cost of Rs. 380-11-5.

531 carts load or 455 $\frac{4}{4}$ cubic yards of silt were removed to a little more than half a mile on an average.

The cost of cleaning other drains is Rs. 170-13-7.

SANDING LATRINES.

During the year 133 Latrines were sanded with fresh sand at a cost of Rs. 880-12-0.

1st	Division	C. W.	.....	Latrines	2 =	Rs.	16	14	0
,,	,,	,,	.....	,,	5 =		70	5	0
,,	,,	,,	.....	,,	2 =		18	12	0
,,	,,	W. W.	.....	,,	5 =		126	9	0
2d	,,	C. W.	.....	,,	2 =		112	8	0
3d	,,	N. W.	.....	,,	2 =		14	1	0
4th	,,	,,	.....	,,	2 =		16	14	0
5th	,,	S. W.	.....	,,	8 =		28	2	0
,,	,,	C. W.	.....	,,	2 =		7	0	6
,,	,,	,,	.....	,,	8 =		91	6	6
6th	,,	N. W.	.....	,,	2 =		8	7	0
	,,	,,	.....	,,	2 =		4	3	6
	,,	S. W.	.....	,,	15 =		5	12	0
	,,	S. W.	.....	,,	10 =		40	5	0
7th	,,	N. W.	.....	,,	14 =		158	3	3
,,	,,	,,	.....	,,	10 =		35	15	0
,,	,,	S. W.	.....	,,	8 =		22	8	0
8th	,,	N. W.	.....	,,	2 =		9	6	0
	,,	,,	.....	,,	2 =		7	8	9
	,,	S. W.	.....	,,	2 =		9	6	0
	,,	,,	.....	,,	4 =		10	1	0
	,,	,,	.....	,,	3 =		11	11	10
	,,	,,	.....	,,	4 =		10	8	8
	,,	,,	.....	,,	4 =		10	1	0
	,,	,,	.....	,,	3 =		9	6	0
	,,	,,	.....	,,	2 =		4	11	0
	,,	,,	.....	,,	4 =		10	1	0
	,,	,,	.....	,,	4 =		10	1	0
					133 =		880	12	0

PUBLIC WORKS AND CONSERVANCY DEPARTMENTS.

Arrears paid during 1879.

2d	Division	.....Rs.	33	14	0
3rd & 7th	,,	,,	22	8	0
4th	,,	,,	47	13	0
5th	,,	,,	32	12	3
7th	,,	,,	22	8	0
8th	,,	,,	3	8	3
		Rs...	162	15	6

KILLING DOGS.

The destruction of dogs found straying in the streets was as usual conducted under the orders of the Commissioner of Police. The expenditure under this head was Rs. 1,145-1-4.

The dogs so destroyed were used as food for the wild animals in the People's Park and also for manuring the trees.

SEWAGE FARMS.

The following are the Sewage Farms which were in existence during the year :—

1st Division,	Royapoorum.	7th Division,	Triplicane.
4th ,,	D'Mellow's Road.	8th ,,	Kistnampett.
5th ,,	Egmore.	,, ,,	Royapett.

As stated in last report the small Farms at Egmore and Royapett cannot well be classed under the head of Farms; they have however been found very useful as plots on which the sewage of a small area could be disposed of. Their working has not cost the Municipality any money. During the year the Royapooram farm was handed over to the Robinson Park Committee as it will form portion of the Park. It is now being worked at a profit and increases the fund for the formation of the Park.

The cost of working the Farms and the receipts from each is as follows :—

ROYAPOORAM.

	Rs.	A.	P.		Rs.	A.	P.
Sale of hay and grass	127	7	11	Superintendent	14	0	0
Loss	263	12	7	Labour	377	4	6
Rupees...	391	4	6	Rupees...	391	4	6

DEMELLOW'S ROAD.

	Rs.	A.	P.		Rs.	A.	P.
Sale of hay and grass	2,640	8	10	Superintendent	180	0	1
Stock on hand 27 tons, 15 cwts., 1 Qr. 20 lbs.	972	0	0	Labour	1,416	11	10
				Carting hay to Body Guard	5	0	1
	3,612	8	10	Repairing Superintendent's quarter	20	3	4
Deduct value of stock in hand on 31st Dec. 1879	845	9	4	Stores	38	2	6
					1,660	2	5
				Profit	1,106	13	8
Rs.	2,766	15	6	Rs.	2,766	15	6

TRIPLICANE.

	Rs.	A.	P.		Rs.	A.	P
Sale of hay and grass	2,116	15	3	Superintendent	144	0	0
Stock on hand 15 tons, 9 cwts., 1 Qr. 27 lbs.	541	9	9	Labour	1,382	15	3
				Carting hay to Mount	129	4	0
	2,658	9	0	Constructing a new support wall and refixing the Picottah	77	0	0
Deduct value of stock in hand on 31st Dec. 1879	727	5	6	Substituting an upright post of Picottah No. 1	13	0	0
				Erecting a Watchman's shed	6	14	0
	1,931	3	6	Cariage hire paid to Surveyor for taking levels	0	14	0
Loss	14	6	0	Stores	191	10	3
	1,945	9	6		1,945	9	6

There was also an expenditure for extending the farm as follows :—

Constructing support wall and refixing Picottah	63	1	7
Erecting a thatched shed for the Superintendent	42	10	0
Levelling and putting beds in South Beach Mussulmen Burial Ground	157	12	6
Levelling grounds and forming beds	40	7	9
Do. do. do.	159	15	4

KISTNAMPETT.

	Rs.	A.	P.		Rs.	A.	P.
Sale of hay and grass	3,710	7	11	Superintendent	180	0	0
Stock on hand 38 tons, 5 cwts., 1 Qr. 6 lbs	1,334	13	1	Labour	1,664	1	4
	5,045	5	0	Carting hay to Mount	167	8	6
Deduct value of stock in hand 31st Dec. 1879	985	5	5	Repairing Superintendent's shed	18	11	0
				Tiles	31	0	0
				Carriage hire paid to Surveyor for taking levels	0	14	0
				Stores	79	12	8
					2,141	15	6
				Profit	1,918	0	1
	Rs. 4,059	15	7		Rs. 4,059	15	7

EGMORE.

	Rs.	A.	P.		Rs.	A.	P.
Sale of hay and grass	24	2	8	For tools supplied	11	4	0
				Profit	12	14	8
	Rs. 24	2	8		Rs. 24	2	8

The amount of rent paid on lands occupied as Sewage Farms during the year is

Kistnampett Sewage Farm	Rs.	2,736	10	4
Triplicane	,,	409	14	7
Royapett	,,	36	0	0
	Rs.	3,182	8	11

PRIVATE MARKETS.

The state of the Markets on the coming into operation of the Act, I have previously referred to and I will now insert Lists of all those in existence during the year with the remarks of the President on their conditions at the time of inspection :—

Statement of Applications for Private Markets under Section 350 of Act V of 1878, with President's Recommendation.

No.	Division and Ward.		Locality of Market. Door No.	Street.	Village.	Name of applicant for license.	Date of application.	President's Recommendation.
1	1	East	4	Kulmuntapum Road	Attapauliam	P. Rajagopaul Naick ...	27 1 1879	I recommend that this market be licensed for the current year, but that intimation be given to the owner that the license will not be renewed unless all the requirements of the Act and Bye-Laws relating to markets are observed, and complied with.
2	1	„	102	Ghows Moideen Street	Tondiarpettah	M. Soobooroya Chetty ...	11 2 1879	This is quite unfit for a market and should be refused a license. It has no latrines, no paving, no drainage, and is very dirty and mal-odorous.
3	1	Centre	348	Trivatoor High Road	Washermenpettah	V. Periannah Nattan ...	13 2 1879	This is the market about which Dr. Thompson recently wrote to the Commissioners recommending that it be closed, and the new market belonging to P. Munisamy Chettiar licensed in its stead. It is not a fit place for a market, and I recommend it being closed.
4	1	„	83	Narrainapah Naick Street	Royapuram	T. Margasagoya Nattan ...	31 3 1879	This is a very dirty place in the Tinnevelly Settlement. It is not a fit place for a market and should be closed. If Munisamy Chetty's market is opened, it will suffice for this locality.
5	1	„	123	Audom Saib Street	do.	C. Cotapah Naidoo	4 3 1879	This and the following market are in close proximity. They are both in an incomplete state. I recommend licenses being granted to them with an intimation that they will not be renewed next year, unless the markets shall in the meantime have been completed, and be kept in every respect in accordance with the requirements of the Act and Bye-laws.
6	1	„	14	do.	do.	P. Valoida Chetty	19 2 1879	
7	1	Centre	246	Varathapa Maistry Street.	Washermenpettah	Varadapah Maistry	26 5 1879	Not at all a fit place for a market." See my report endorsed on application. License should be refused. This application must be disposed of by the Commissioners under Section 347.
8	1	West	237	Trivattoor High Road	do.	T. Moothoosawmy Moodelly ...	31 3 1879	This is a new market and may be licensed in accordance with the terms proposed in my report endorsed on the application. Must be referred to Commissioners under Section 347.
9	2	Centre	85	Nautoo Pilliar Covil Street... ...	Peddu Naick's Pettah ...	Gocul Doss	No date	This market may be licensed provided that intimation be at the same time made to the owner that he must carry out all the alterations and improvements required by the President before next year, otherwise the license will not be renewed.
10	2	South	14	Munnaroo Street	John Pereira's	Vencatasooboo Chetty ...	25 2 1879	This market has been frequently the cause of legal proceedings. Some improvements have been made, but only the other day the Sanitary Inspector found a quantity of offal concealed in a godown and giving off a most offensive smell. It is a market which could be well dispensed without much inconvenience to the public. I therefore recommend that a license be refused.
11	2	North	111	Govindapah Naick Street	Peddu Naick's Pettah ...	Affiz Mohamed Ghows Sait ...	30 1 1879	License has already been granted through oversight. There is, however, no reason for withholding a license, and the Committee are requested to confirm the license.

No.	Division and Ward.		Locality of Market. Door No.	Street.	Village.	Name of applicant for license.	Date of application.	President's Recommendation.
12	3	North	179	Uncapah Naick Street	Town	M. Soobooroya Chetty ...	8 3 1879	This is a very dirty ill-kept place. I recommend that license be refused It is not a fit place for a market.
13	3	„	88-90	Munnady Street	Moothealpettah	Janakummall	10 3 1879	This may be licensed conditionally for the current year. Some improvements are being effected which are in an incomplete state.
14	3	North	24	Parish Vencatachella Iyer Street. ...	Peddu Naick's Pettah ...	Vencatasawmy Chetty ...	10 3 1879	May be licensed, provided the *persons occupying a portion of the Market be rejected:* and all necessary improvements carried out at once, otherwise license should be refused and the Market closed.
15	3	South	1	Andeappah Naicken Street	Do.	Kistnasawmy Chetty ...	8 2 1879	This is the Market known as the Cutwall Bazaar. I consider it unfit for a Market both by construction and arrangement, and recommend that a license be refused and steps taken for erecting a new Market on the ground near Elephant Gate Bridge.
16	4	...	2-55	D'Mellow's Road	Choolay	A. Chinnatomby Moodelly ...	3 4 1879	This is not a fit place for a Market and a license should not in my opinion be granted.
17	5	North	40	Choolay Bazaar Road	Dc.	P. Soobaroya Chetty ...	18 3 1879	I consider this an unfit place for a Market for reasons stated in my report.
18	5	Centre	16	Poorasawaukum High Road. ...	Poorasawakum	Manicca Moodelly	6 3 1879	A license may be granted conditionally on the Market being put in proper order.
19	5	Centre	21	Naraiyana Chetty Street	Periamettu	Chengleroya Chetty and Paroomal Chetty	7 3 1879	A license may be granted for current year conditionally in the place being put in good order as required by the President, vide my inspection report.
20	5	South	29	Sealla Moodelly Street	Poodoopett	V. Bungasawmy Naidu ...	10 3 1879	This is rather a dirty little place. It is not fit in my opinion for a Market, but I would offer a license this year, provided the owner undertook to have it put in proper order before next year.
21	6	South	45	Mount Road	Thousand Lights	Goolam Nabee Oollah Ahmed Khan Bahadoor ...	26 1 1879	This is a miserable place, but was in fair condition as regards cleanliness. It would be well to give the license for this year with an intimation that the license would be withdrawn as soon as the Municipality were in a position to erect a Market in the locality.
22	7	North	17-18	Aroonachella Naick Street	Chintadrepettah	M. Poolliah	17 3 1879	License recommended.
23	7	„		Waller's Road	Nagatha Covil	Syed Mohamed Bauker Sait ..	7 3 1879	License recommended for this year. He should be warned to complete the building without delay, otherwise a license will be refused next year.
24	7	Centre	41 & 48	Pycroft's Road	Trivetteeswarenpett ...	Hazarimull Laula	12 2 1879	Licenses recommended for this year subject to withdrawal in 1880, should the defects existing not have been remedied previously in accordance with the orders of the President.
25	7	„	2-34	Triplicane High Road	Triplicane	Jamall Khan Sait	13 3 1879	
26	7	„	188-9	Do.	Do.	Rahathoonnissa Begum ...	28 3 1879	
27	8	North	80	Bazaar Road	Mylapoor	Nazerally Khan Bahadoor ...	3 3 1879	I consider this and the following three places all unfit for being used as Markets, and recommend that a license be granted them for this year only with an intimation that the Municipality will take steps for providing a new public Market and will thereupon close theirs.
28	8	North	136	Vencatachella Moodelly Street ...	Meersaibpettah	Luchmana Row	25 2 1879	Vide remarks in preceding number.
29	8	„	19	Royapettah High Road	Royapettah	Mohamed Nazir ud Din Khan...	26 2 1879	
30	8	South	28	Mundavully Street	Mylapoor	M. S. Coomarasawmy Moodelly.	2 2 1879	

The Standing Committee when considering this matter resolved the following:

That licenses be granted to the several applicants to keep the undermentioned places as markets, conditionally that they are to be put into a state of thorough repair and in accordance with the requirements of the Act and Bye-Laws :—

Kalmantapam Road	Attapauliam	P. Rajagopal Naick.
Audom Saib Street..	Royapuram	C. Cotapah Naidoo.
Do.	Do.	P. Valoida Chetty.
Nautoo Pilliar Covil Street.. ..	Peddoo Naick's Pettah ..	Gocull Doss.
Govindapa Naick Street	Do.	Offiz Mahomed Ghouse Saib.
Munnady Street	Moothealpettah	Janukumall.
Parish Vencatachella Iyer Street ..	Peddoo Naick's Pettah ..	Vencatasawmy Chetty.
Pursewalkum High Road	Pursewalkum	Manicka Mudally.
Narayana Chetty Street	Periyamett	Chengelroy Chetty and Peroomal Chetty.
Seala Mudaly Street	Poodoopett	V. Rungasawmy Naidoo.
Mount Road	Thousand Lights	Goolam Nabee Oollah Ahmed Khan Bahadnr.
Aroonachella Naick Street.. ..	Chintadripettah	M. Poolliah.
Waller's Road	Nagatha Covil	Syed Mahomed Baukiz Saib.
Pycroft's Road	Trevetteeswarenpettah ..	Hazarimull Laula.
Do.	Triplicane	Jamaull Khan Saib.
Triplicane High Road	Do.	Rahathoonnissa Begum.

The applications from the owners of the undermentioned markets are ordered to lie over :

Ghouse Moideen Street	Tondiarpettah	M. Soobaroya Chetty.
Trivattoor High Road	Washermanpettah	V. Perianna Nattan.
Narayanapah Naick Street	Royapuram..	T. Margasagaya Nattan.
Munnaroo Street	John Pereira's	Vencatasooboo Chetty.
Uncapah Naick Street	Black Town	M. Soobroya Chetty.
Audeapa Naick Street	Peddoo Naick's Pettah ..	Kistnasawmy Chetty.
DeMellow's Road	Choolay..	A. Chinnatomby Mudally.
Choolay Bazaar Road	Do.	P. Soobroya Chetty.
Bazaar Road	Mylapoor	Nazerally Khan Bahadur.
Vencatachella Mudali Street ..	Meersaibpettah	Lutchmana Rao.
Royapettah High Road	Royapettah	Mahomed Nazarud Din Khan.
Mundavelly Street	Mylapoor	M. S. Coomarasawmy Mudally.

The following applications were again brought on for consideration at an adjourned Meeting of the Standing Committee on the 11th September :—

No. 15.	The Cutwal Bazaar Market...	...	3d Division.
„ 16.	The DeMellow's Road Market...	...	4th „
„ 17.	The Choolay Bazaar do. ...	...	5th „
„ 27.	The Market in Bazaar Road, Mylapore	...	8th „
„ 28.	The Market in Meer Saibpettah...	...	8th „
„ 29.	The Market in Royapettah High Road	...	8th „
„ 30.	The small Market in Mundavally Street, Mylapore	...	8th „

The numbers refer to the Schedule which accompanied the President's report of the 24th of July. These are the only applications still remaining undisposed of.

No. 15. *The Cutwal Bazaar Market.*—At the first consideration of this application the Standing Committee were unable to concur with the recommendation of the President in respect of this market as given in the Schedule which was to the following effect :—

" I consider it unfit for a market both by construction and arrangement, and recommend that license be refused and steps taken for erecting a new market on the ground near Elephant Gate Bridge." The reasons of the President are more fully stated in the Report.

The Committee are fully prepared to admit that the market is badly constructed and badly arranged, and that it is over-crowded and dirty. But by its position in the midst of the town it affords facilities for the purchase of daily necessaries

superior to any market situated outside the town, and the Committee would be sorry to sacrifice this advantage. They think that the defects of construction and arrangement can be remedied by issuing judicious detailed orders to the person in charge; and for the over-crowding, they propose the following arrangement for the approval of the Commissioners:—

(*a*) To forbid the sale of vegetables and fruits in the Cutwal Bazaar Market.

(*b*) To close the Municipal General Market as a market for meat, poultry, fish, and all other articles of animal food, and to transfer the vegetable and fruit stalls from the Cutwal Bazaar to the General Market.

(*c*) To build a new model General Market for fish, meat, poultry, European vegetables, &c., on a suitable site at a cost not exceeding Rupees 50,000.

(*d*) To strictly prohibit and put a stop to the present objectionable practice of selling vegetables by the street sides, at the places mentioned in the following list, or at any other place after the completion of the above arrangement:—

Division.	Ward.	Name of Street.
2nd	North ..	Govindappah Naick Street, on the West side from house Nos. 110 to 111.
		Govindappah Naick Street, on the East side from house Nos. 116 to 122.
		Ummen Covil Street.. .. .. }
		Anacara Conan Street .. .. } At the junction.
		Seven Wells Street .. .. }
	Centre ...	Nattoo Pillayar Covil Street, in front of house Nos. 1 to 6.
		Anna Pillayar Street, from house Nos. 120 to 123 and 5 to 3.
		Vurthamootheappen Street, from Nos. 126 and 127.
	South ..	Mint Street from Rassappah Chetty Street to Ponnappah Chetty Street, from Door Nos. 46 to 62 and from Nos. 472 to 485.
		Wall Tax Road in front of Pagoda No 59—five bazaars.
3rd	North ...	Linghy Chetty Street, in front of house Nos. 237 and 238
		Do. do. Nos. 183 to 187.
	Centre ..	Annah Pillay Street, from the junction of Vurthamoothe-appen Street to Audeappah Naick Street.
		Davidson Street .. .. } At the junction.
		Annah Pillay Street .. .. }
	South ..	Annah Pillay Street, in front of Door No. 6.

The Committee being unanimous as to the propriety of the above proposals

Resolved that a license for the Cutwal Bazaar Market be issued to the applicant, Kistnasawmy Chetty, for the present year.

No. 16. *The DeMellow's Road Market.*—The President recommends refusal of a license. The following is extracted from his inspection report of the 2nd May 1879:—"No portion of the market is either drained or metalled or paved. The buildings are very dilapidated. No latrines. No well or other water-supply. The floors of the meat and fish stalls are covered with dirt and saturated with water or blood, and give off a bad smell. They are also much broken up and out of repair. Generally the market presents a dirty and dilapidated appearance. The license should certainly be refused."

The Committee concur with the President in refusing a license for this market, as there will be accommodation at the new Municipal market lately purchased from Mr. Lee.

No. 17. *The Choolay Bazaar Market.*—The President recommends the refusal of a license to this market on the ground that it is not a fit place for a market. The market is divided into two portions by the Choolay Main Drain. This is an open drain, and has to be cleaned out daily, this necessary operation being attended with a bad smell.

The following is the President's report on this market :—

1*st part.*—Bounded by the open drains on the south and east, by back-yards on the west and by Vijaya Vigneswarer Covil Road on the north.

Entrances from Choolay Bazaar Road, Vijaya Vigneswarer Covil Road, and a communication with second part over the open drain.

In the first part only dry grain, earthenware pots, and vegetables are sold. All the buildings and pial pavements are dilapidated and dirty. The metalling of the gangways is broken up : there are no drains, and no water-supply.

This part is generally very dirty.

There is one open latrine without pavement of any kind or floor. It was in a most disgustingly dirty state. It has no proper attention.

In this part I see no great objection to the sale of pots and dry grains, but fruit and vegetables should not be sold in so dirty a place.

2*nd part.*—Bounded by the open drain, Choolay Bazaar Road and Vijaya Vigneswarer Covil Road.

The pial pavements are in fair order in a small portion ; in the greater portion broken up and requiring pointing. Floor where butchers' meat and fish are sold was very dirty. The roofs of the sheds are generally in bad order, and the pillars and posts dirty and dilapidated, requiring plaster and white-washing. The metalling of the gangways fair in parts, broken up in parts, in other parts altogether wanting. One corner of the market was made use of as an open latrine.

There is one well with brackish water, but the Municipality have recently erected two wall taps against the outer wall of the market in Vijaya Vigneswarer Covil Street.

There is no separate latrine for this part which accounts for the disgusting state of the portion above alluded to.

Drains (open brick) require repair, but are in fair order.

The cleaning of the Municipal Main Drain is attended with a very powerful odour which is not only extremely objectionable to persons frequenting the market, but taints meat and vegetables exposed to it.

On this ground alone I consider that even the best kept market would be objectionable ; but, when added to this, the market is badly kept, the case for refusing a license is much stronger. As a market for meat, fish, and vegetables, this place should at once be closed."

The market purchased from Mr. Lee is within 6 furlongs of this place. There is, therefore, no necessity on the ground of the public convenience for licensing the market, and the Committee accordingly concur with the President in refusing a license.

With respect to applications Nos. 27, 28, 29, and 30 the Committee concur with the President in granting a license for the current year.

The Committee direct that all owners of markets licensed this year be as soon as possible furnished with an order showing in detail the works necessary to be carried out, and that a copy of the order so furnished to each market-owner with a report showing the manner in which it has been attended to, be attached to the application for a license for 1880.

The Committee further direct that all owners of licensed markets be furnished *gratis* with a Tamil copy of the Bye-laws relating to markets.

The Committee are of opinion that the President should summon, as early as possible, a general Meeting of the Commissioners for the consideration of the Committee's Proceedings on the President's report on existing markets of the 24th July, and with reference to G. O., dated 5th September 1879, No. 1699, Financial, sanctioning the raising of a debenture loan for purchasing Mr. Lee's market.

3. Read letter, dated 6th September 1879, from Messrs. Branson and Branson, calling attention to a letter, dated 15th ultimo, from C. Vencatasooboo Chetty to the President, to the effect that he had withdrawn his connection with the market at John Pereira's, and to the fact that the other trustee, M. Casavooloo Chetty had, they believed, for some time past ceased to interest himself in the market; and requesting again to be furnished with reasons for refusing a license for the said market.

Market at John Pereira's.

Read the President's draft reply to the effect that it is necessary for the trustees to conduct the business of the trust estate either jointly or by some duly authorized agent, and that the transactions of any one of them singly or of any two could be repudiated by the three jointly if it were found desirable; and considering it objectionable to correspond with them (Messrs. Branson and Branson) until they were properly instructed.

The President's draft reply was approved.

MUNICIPAL MARKETS.

GENERAL MARKET.

The Revenue which this market was calculated to realize during the year was Rs. 6,115 but the actuals were as follows:—

By rent of Stalls	...	Rs.	5,677	0	0
Petty Collections	...	,,	612	7	3

The cost of the Establishment attached to this market was Rs. 994-7-2.

The amount spent upon repairs will be found eleswhere under the head of maintenance (P. Works.)

VEPERY MARKET.

I have already alluded to this market before and need now only refer to the cost of Establishment attached to it and the amount realized by the rent of Stalls for one month October 1879; no rent was charged for the months of November and December 1879, as it was considered that it would not be fair to charge rent while the repairs, &c., to the market were in progress and the Vendors could not conveniently occupy the Stalls.

Establishments	...	Rs.	64	0	0
By Rent	...	,,	126	7	6

SLAUGHTER HOUSES.

The Municipal Slaughter Houses alluded to in former reports were repaired and kept in order at a cost of Rs. 805-1-4.

The Establishment employed at each is as follows:—

		Superintendents.	Sweepers.
Monegar Choultry Slaughter House	...	1	7
Perambore do.	...	1	5
Choolay do.	...	1	4
Triplicane do.	...	1	2

The number of animals Slaughtered at

The Monegar Choultry Slaughter House	No.	176,257	Sheep
Perambore do.	„	9,072	Cattle
Choolay do.	„	142,729	Sheep
Triplicane do.	„	23,028	Sheep

which gives a total of 342,014 sheep and 9,072 cattle during the year.

CART STANDS.

The following shows the Municipal and Private Cart Stands. The income and expenditure of the Municipal Cart Stand is as follows:—

	Income.			Expenditure.			
	RS.	A.	P.	RS.	A.	P.	
at Wall Tax Road ...	698	0	0	571	7	6	Expenditure on construction.
at Stephenson's Road.	100	0	0	0	0	0	
Total...	798	0	0	571	7	6	

PRIVATE.

1 at Trivatoor High Road ... 1st Division.

1 at Mint Street ...
1 at Wall Tax Road ... } 2nd „

1 at Strachan's Road ...
1 at Sydenham's Road ...
1 at Vathiar Cundapillay Street ... } 5th „
1 at Poonamallee Road ...
1 at Lang's Garden Road ...

1 at Codumbakum Road ... 6th „

1 at Triplicane High Road ...
1 at Audeappah Chetty Street ... } 7th „
1 at Cooum Road ...

1 at Peter's Road ...
1 at Cabaleswarer Covil Eastward St. } 8th „

One Cart Stand at Poonamallee Road in the 6th Division had been closed during the year as it was found not to pay.

BURIAL GROUNDS.

As required under Section 356, 357, 358 of Act V of 1878, a register has been opened and kept in this Office of all public as well as private Burial and Burning Grounds, and the provisions of the sections strictly carried out.

The public and private Burning and Burial Grounds are as follows :—

LIST of BURIAL and BURNING GROUNDS registered under the City of Madras Municipal Act No. V of 1878, and published in the *Fort St. George Gazette* in accordance with Section 358 of the said Act.

Division.	Ward.	Village.	Street.	Door Number.	Whether Burial or Burning Ground.	Measurement of the Ground.			Class of Persons Buried or Burned.	Name of the Owner or the Person having the control thereof.	Name of the Party who registered.
						Cawnies.	Grounds.	Square Feet.			
1st	East.	Royapoorum ...	West Madah Church, Main Road ...	34 & 35	Burial ...	1	7	944½	Parsees ...	Eduljee Dinsaw ...	Eduljee Dinsaw.
		Tondiarpet ...	Ghouse Moideenpettah Road..	40	Do. ...	...	6	1,724	Mahomedans ...	M. Jaffergee Tyabally ...	M. Jaffergee Tyabally.
		Do. ...	Shaik Maistry Street ...	38 & 46	Do. ...	4	30	583	Do. Soonee Sect	Causee Goolam Mahomed Saib...	Causee Goolam Mahomed Saib.
		Do. ...	Do. ...	32 & 33	Do. ...	...	2	1,680	Do. do. ...	Achimgee Saib *alias* H. Thathamean Saib.	Achimgee Saib *alias* H. Thathamean Saib.
		Washermenpettah	Monegar Choultry Road ...	2	Do. ...	1	18	1,908	Roman Catholics ...	Rev. T. D. Doyle ...	Rev. T. D. Doyle.
		Tondiarpet ...	Shaik Maistry Street ...	...	Do. and Burning...	2	23	1,829	Hindoos of all classes ...	Owner, Madras Municipal Commissioners; Controller, Overseer of the Ward.	Sanitary Inspector, North Range.
	Centre.	Do. ...	Monegar Choultry Road ...	...	Burial ...	...	18	1,176	Europeans and East Indians.	Directors of St. John's Church, Davidson's Street.	Mr. W. C. VanDerwart.
		Washermenpettah	Soliappa Street ...	5	Burning ...	...	...	1,440	Vysias ...	Athunky Vurthapa Chetty ...	Athunky Vurthapa Chetty.
		Tondiarpet ...	Monegar Choultry Road ...	...	Burial ...	...	7	1,818	Native Roman Catholics	P. Nullathumby Moodelly ...	P. Nullathumby Moodelly.
		Washermenpettah	Cemetery Road ...	...	Do. ...	8	16	2,884	Protestants, FreeChurch, Wesleyan, London, Lutheran and Baptist Missions, Roman Catholics, Mahomedans.	Owner, Madras Municipal Commissioners, Controller, Overseer of the Ward.	Sanitary Inspector, North Range.
	West.	Tondiarpet ...	Trivatoor High Road ...	...	Burning ...	...	12	1,650	Owner's family ...	P. Veeraparoomaul Pillay ...	P. Veeraparoomaul Pillay.
		Korookoopettah...	Cuttiwaukam Road ...	...	Burial and Burning ...	19	11	648	Hindoos of all classes ...	Owner, Madras Municipal Commissioners; Controller, Overseer in charge of the Ward.	Sanitary Inspector, North Range.
4th		Perambúr ...	Strahan's Road ...	...	Burial Ground ...	...	13	1,365	Mahomedans ...	Syed Saliah Narasoollah Sah Kawder Saib.	Syed Saliah Narasoollah Sah Kawder Saib.
		Do. ...	Do. ...	...	Do. ...	1	10	1,504	Do. ...	Do. ...	Do.
		Choolay ...	DeMellow's Road ...	...	Burial and Burning ...	...	9	2½	Bunnions ...	Yacambra Pandaram ...	Yacambra Pandaram.
		Veyasarpady ...	North of the Perambúr Chuckley Palium ...	...	Do. ...	1	3	2,324	Chucklers ...	Owner, Madras Municipal Commissioners; Controller, Overseer of the Division.	Sanitary Inspector, North Range.
		Choolay ...	DeMellow's Road ...	...	Do. ...	...	5	660	Bunnions ...	Addapully Venkuttarama Chetty	A. Venkuttarama Chetty.
		Do. ...	Do. ...	...	Do. ...	1	...	1,582½	Hindus ...	Municipal Commissioners; Controller, Overseer of the Division.	Sanitary Inspector, North Range.
		Do. ...	Basin Road ...	...	Burial Ground ...	...	20	126½	Do. ...	Do. ...	Do. do.
		Do. ...	Do. ...	...	Do. and Burning Ground.	...	20	166	Do. ...	Do. ...	Do. do.
		Do. ...	DeMellow's Road ...	...	Do. ...	...	5	144	Brahmins ...	Do. ...	Do. do.
		Do. ...	Do. ...	...	Do. ...	...	2	229	Rajaputs ...	Do. ...	Do. do.

List of Burial and Burning Grounds registered under the City of Madras, &c.—(*Continued.*)

Division.	Ward.	Village.	Street.	Door Number.	Whether Burial or Burning Ground.	Measurement of the Ground.			Class of Persons Buried or Burned.	Name of the Owner or the Person having the control thereof.	Name of the Party who registered.
						Cawnies.	Grounds.	Square Feet.			
5th	North.	Pursewaukum ...	Vadamalay Street ...	22	Burial Ground ...	4	14	1,972	Europeans, Eurasians, and Native Christians.	Rev. A. C. Taylor, Chaplain ...	Rev. A. C. Taylor, Chaplain.
		Do. ...	Calatheeappa Moodelly Street. ...		Do. ...	1	4	2,064	Catholic Christians, Europeans, East Indians, and Natives.	Rev. Henry Henessey ...	Rev. Henry Henessey.
		Do. ...	Brick-kiln Road ...	...	Burial Ground ...	...	17	2,088	Christians belonging to the Evangelical Lutheran Church.	Evangelical Lutheran Community of Pursewaukum; Controller Rev. R. Handman.	Rev. R. Handman.
		Do. ...	Vencattammaul Sanady Street.	1	Do. ...	...	13	182½	Vellala and Balgee ...	G. Seetharama Naidu ...	P. Etharajulu Naidu.
		Do. ...	Perambúr Barracks Road ...	...	Do. ...	2	1	2,178	Europeans, Eurasians, and Native Christians.	Rev. G. M. Cobban, Secretary and Manager.	Rev. G. M. Cobban, Secretary and Manager.
		Do. ...	Thandaroya Moodelly Lane ...	8	Do. ...	...	15	1,190	Mahomedans, Soonee Sect.	Zinlee Kawder Beebee ...	Zinlee Kawder Beebee.
		Do. ...	Cundapah Moodelly High Road	...	Do. ...	...	5½	352	Europeans, Eurasians, and Natives.	T. Wilkinson ...	T. Wilkinson.
		Do. ...	DeMellow's Road ...	...	Burial and Burning Ground.	...	1	460	Owner's family ...	Annamalay Moodelliar ...	M. Soobbooroya Moodelly.
		Do. ...	Main Road ...	62	Burial Ground ...	...	5	680	Unitarians, Christians, East Indians, and Natives.	Rev. William Roberts ...	Rev. William Roberts.
6th	South.	Do. ...	Madavakam Tank ...	...	Burial and Burning Ground.	...	25	3,000	Siva Sect and Vishnu Sect.	Vurdiah Maistry ...	Vurdiah Maistry.
		Do. ...	Brick-kiln Road ...	...	Do. ...	1	10	165	Hindus ...	Owner, Municipal Commissioners; Controller, Overseer of the Ward.	Sanitary Inspector, South Range.
		Nungumbaukum ..	Mount Road ...	...	Burial Ground ...	...	8	555	Mahomedan, Sea Sect...	Goolam Nabee Moollah Ahmed Saib.	Goolam Nabee Moollah Ahmed Saib.
		Do. ...	Sterling's Road ...	...	Do. ...	2	6	1,935	Hindus of all classes ...	Municipal Commissioners, Owner; Controller, Overseer of the Ward.	Sanitary Inspector, South Range.
7th	Centre.	Theeroovateesoo-renpettah ...	Chinnathumby Moodelly Street ...	29	Do. ...	...	4	1,899	Family of the owner ...	Mahomed Hoosman Saib ...	Mahomed Hoosman Saib.
		Do. ...	Vullaba Agraram Street.	10	Do. ...	...	...	420	Do. ...	Ibramkan, Subadar ...	Ibramkan, Subadar.
		Do. ...	Chinnathumby Moodelly Street	...	Do. ...	...	...	176½	Do. ...	Office Mahomed Arab ...	Office Mahomed Arab.
		Do. ...	Do. ...	...	Do. ...	...	1	70 1/12	Do. ...	Office Goolam Moideen Saib ...	Office Goolam Moideen Saib.
		Do. ...	Do. ...	...	Do. ...	...	...	119	Do. ...	Syathgannee Saib ...	Syathgannee Saib.
		Do. ...	Do. ...	...	Do. ...	...	...	357	Do. ...	Thavood Saib ...	Thavood Saib.
		Do. ...	Do. ...	...	Do. ...	...	...	561½	Do. ...	Bada Saib ...	Bada Saib.
		Do. ...	Do. ...	...	Do. ...	...	...	644	Do. ...	Keethapeth Khan Bahadur Saib.	Keethapeth Khan Bahadur Saib
		Do. ...	Do. ...	...	Do. ...	...	...	198	Do. ...	Augusthallee Saib ...	Augusthallee Saib.
		Do. ...	Do. ...	...	Do. ...	...	...	540	Do. ...	Mahomed Yathayethoolo Saib ...	Mahomed Yathayethoola Saib
		Nil	Body Guard Road ..	4	Do. ...	2	8	2,211	Roman Catholic Soldiers and some others.	Very Rev. J. Colgan ...	Very Rev. J. Colgan.
		Do. ...	Towlikan Bahadur Street ..	7	Do. ...	...	...	209	Owner's family ...	Kawder Bacha ...	Kawder Bacha.
		Do. ...	Chinnathumby Moodelly ..	...	Do. ...	...	...	679	Do. ...	Annootheabee Sahib ...	Annootheabee Saib.

List of Burial and Burning Grounds registered under the City of Madras, &c.—(*Continued*).

Division.	Ward.	Village.	Street.	Door Number.	Whether Burial or Burning Ground.	Measurement of the Ground.			Class of Persons Buried or Burned.	Name of the Owner or the Person having the control thereof.	Name of the Party who registered.
						Cawnies.	Grounds.	Square Feet.			
7th	Centre.	Theeroovatteesoo-renpettah.	Chinnathumby Moodelly ...	...	Burial Ground ...	...	...	68	Mahomedans, Soonee Sect.	Adacan Mahomed Hoosain Saib.	Adacan Mahomed Hoosain Saib.
		Do. ...	Veeraragoova Street ...	...	Do. ..	...	4	...	Do. ...	His Highness The Prince of Arcot.	Ahmed Moideen Khan Bahadur.
		Do. ...	Chinnathumby Moodelly Street	...	Do. ...	...	...	345	Do. ...	Mahomed Woomer Saib ...	Mahomed Woomer Saib.
		Nil ...	Wallajah Esplanade Road ...	...	Do. ...	...	12	2,265	Presbyterians ...	Government Cemetry ...	Rev. W. A. Liston.
		Theeroovatteesoo-renpettah.	Chinnathumby Moodelly Street.	...	Do. ...	...	...	36	Mahomedans of the Soonee Sect.	Kauther Bee ...	Kauther Bee.
		Do. ...	Do. ...	...	Do. ...	...	...	272	Do. ...	Shaik Davood Saib ...	Shaik Davood Saib.
		Do. ...	Do. ...	...	Do. ...	...	...	223½	Do. ...	Syed Esack ...	Syed Esack.
		Do. ...	Do. ...	...	Do. ...	...	...	620	Do. ...	Mahomed Hoosman Saib ...	Mahomed Hoosman Saib.
		Triplicane ...	Triplicane High Road ...	...	Do. ...	...	6	2,031	Owner's family ...	Alli Hoosain Khan Bahadur ...	Alli Hoosain Khan Bahadur.
		Wallajahpettah ...	Jana Jan Khan Bahadur Street.	14	Do. ...	1	5	1,751½	Europeans, East Indians, and Natives.	Right Rev. Dr. S. Fennelly ...	Rev. E. M. Angelo.
	South.	Triplicane ...	Triplicane High Road ...	...	Do. ...	...	2	208	Owner's family ...	Agee Mahomed Bacha Saib ...	Agee Mahomed Bacha Saib.
		Do. ...	Do. ...	...	Do. ...	...	6	1,840	Mahomedans ...	Syed Ahmed Saib ...	Syed Ahmed Saib.
		Do. ...	Do. ...	...	Do. ...	...	6	792	Do. ...	Do. ...	Do.
		Do. ...	Soonkawar Street ...	20	Burial and Burning Ground.	...	...	4,290	Select Mandayam Brahmins, Thagly Vishnuvites.	M. A. Theeroonarayana Aucharry and others.	M. A. Parthasarathy Iyengar and others.
		Do. ...	Ice House Road ...	...	Do. ...	4	17	328	Hindus of all Classes ...	Owner, Municipal Commissioners; Controller, Overseer of the Ward.	Sanitary Inspector, South Range.
		Do. ...	Triplicane High Road ...	...	Burial Ground ...	...	...	600	Mahomedans ...	Agee Mahomed Alli Saib ...	Agee Mahomed Alli Saib.
		Do. ...	Do. ...	...	Do. ...	1	1	1,905	Do. ...	Casimjung Bahadur ...	Casimjung Bahadur.
		Do. ...	Auzudeen Khan Bahadur Street.	10	Do. ...	...	...	102½	Do. ...	Goolam Dustagheer Saib ...	Goolam Dustagheer Saib.
8th	North.	Kistnampet ...	Barber's Bridge Road ...	...	Do. ...	1	22	1,196	Do. ...	His Highness The Prince of Arcot.	Koodruth Ally Khan Bahadur.
		Do. ...	Do. ...	...	Do. ...	...	1	341	Do. ...	Abdul Ganni Khan Bahadur ...	Abdul Ganni Khan Bahadur.
		Do. ...	Do. ...	...	Do. ...	...	23	1,104	Prince of Arcot's family.	His Highness The Prince of Arcot.	Koodruth Ally Khan Bahadur.
		Do. ...	Do. ...	36 & 37	Do. ...	...	3	315	Mahomedans of Soonee Sect.	Nawathoolla Saib Sergerook ...	Nawathoolla Saib Sergerook.
		Do. ...	Do. ...	...	Do. ...	1	19	2,200	Members of the Carnatic Family.	Koodruth Ally Khan Bahadur ...	Koodruth Ally Khan Bahadur.
		Do. ...	Do. ...	...	Do. ...	5	18	1,300	Mahomedans ...	Her Highness Nabob Kyroonissa Begam Sahiba.	Hajee Syed Mahomed Ghouse Saib.
		Mylapoor ...	Arandal Street ...	5	Do. ...	...	6	1,691	Mahomedans of Soonee Sect.	Syed Kawder Moideen Saib Fakeer.	Syed Kawder Moideen Saib Fakeer.
		Kistnampet ...	Barber's Bridge Road ...	...	Do. ...	...	8	1,792	Mahomedans ...	Agee Goolam Ahmed Saib ...	Agee Goolam Ahmed Saib.
		Mylapoor ...	Bazaar Road ...	6	Do. ...	...	8	201	Do. of Soonee Sect.	Haffiz Sadrool Islam Khan Bahadur.	Jammaul Khan Saib.
		Luz ...	Luz Church, Oliver's Street ...	1	Do. ...	3	15	...	East Indians and Natives	Rev. J. B. Gonsalves ...	Rev. J. B. Gonsalves.

List of Burial and Burning Grounds registered under the City of Madras, &c.—(*Continued*).

Division.	Ward.	Village.	Street.	Door Number.	Whether Burial or Burning Ground.	Measurement of the Ground.			Class of Persons Buried or Burned.	Name of the Owner or the Person having the control thereof.	Name of the Party who registered.
						Cawnies.	Grounds.	Square Feet.			
8th	North.	St. Thomé High Road, Mylapoor.	St. Thomé High Road ...	2 & 12	Burial Ground ...	2	16	1,430	East Indians and Native Catholics.	Rev. J. B. Gonsalves ...	Rev. J. B. Gonsalves.
		Kistnampet ...	Barber's Bridge Road ...	...	Do. ...	...	2	2,086⅞	Mahomedans of Soonee Sect.	Ehtashamood Dowlah Bahadur..	Ehtashmood Dowlah Bahadur
		Do. ...	Do. ...	...	Do. ..	...	...	623⅛	Do. ...	Do. ...	Do.
		Do. ...	Do. ...	...	Do. ...	...	...	866¼	Do. ...	Malik Goolam Rasool Khan ...	Malik Goolam Rasool Khan
		Do. ...	Do. ...	...	Do. ...	...	...	716 1/16	Do. ...	Ahmudoollab Salb ...	Ahmudoollab Saib.
		Mylapoor ...	Mada Covil Street ...	35	Do. ...	3	13	875	East Indians and Natives	Rev. J. B. Gonsalves ...	Rev. J. B. Gonsalves.
		Descance (Adyar).	Yellapathamada Covil Street...	8	Do. ...	1	3	1,088	Native Catholics ...	Do. ...	Do.
		Kistnampet ...	Barber's Bridge Road ...	...	Do. ...	...	6	252	Mahomedans of Soonee Sect.	Ageemahomed Abdulla Saib ...	Ageemahomed Abdulla Saib.
		Do. ...	Do. ...	35	Do. ...	...	...	2,550	Mahomedans ...	Laulamean ...	Laulamean.
		Do. ...	Do. ...	33	Do. ...	...	...	2,010	Do. ...	Do. ...	Do.
		Do. ...	Eroosappa Gramany Street ...	33	Do. ...	...	1	2,070	Do. ...	Valee Ahmed ...	Valee Ahmed.
		Do. ...	Meera Saib ...	8	Do. ...	...	...	1,200	Do. owner's family.	Syed Abbas Hoosain ...	Syed Abbas Hoosain.
		Do. ...	Barber's Bridge Road ...	6	Do. ...	...	6	110	Do. ...	Akeem Kawder Ahmed Khan Bahadur.	Akeem Kawder Ahmed Khan Bahadur.
		Do. ...	Do. ...	...	Do. ...	...	...	1,800½	Mahomedans ...	Hanipaw Bee ...	Hanipaw Bee.
		Do. ...	Do. ...	8	Do. ...	...	13	25	Do. Soonee Sect.	Subdurally Shaw and another ...	Subdurally Shaw and another.
		Do. ...	Do. ...	...	Do. ...	...	1	2,295	Do. ...	Nathoomean Saib ...	Nathoomean Saib.
		Mylapoor ...	Cutcherry Road ...	9	Do. ...	...	1	393	Do. ...	Mahomed Yaver ...	Mahomed Yaver.
		Do. ...	Padariar Covil Street ...	7	Do. ...	...	19	2,150	Do. ...	Alli Khan Bahadur and 2 others.	Alli Khan Bahadur and 2 others.
		Do. ...	Cutcherry Road ...	7	Do. ...	...	6	1,475	Do. ...	Syed Abbibulla Saib Cawdry ...	Syed Shaw Abbibulla Cawdry.
		Do. ...	Do. ...	...	Do. ...	...	15	1,669¼	Do. ...	Shaik Abeeb Saib ...	Shaik Abeeb Saib.
		Royapettah ...	Peter's Road ...	16	Do. ...	6	17	788 3/16	Mahomedans ...	H. H. The Prince of Arcot ...	Hamed Moideen Khan, Secretary to H. H. The Prince.
		Kistnampet	Moothia Moodely's Garden ...	...	Do. ...	2	3	1,886	Do. ...	Do. ...	Do.
		Mylapoor ...	Capres Road ...	...	Burial and Burning Ground.	4	9	65	Hindus of all classes ...	Owner, Municipal Commissioners; Controller, Overseer of the Ward.	Sanitary Inspector, South Range.
		Royapettah ...	Royapettah High Road ...	27	Burial Ground ...	...	3	1,210	The Hindus ...	Soonthramoorthy Oodayavar ...	Soonthramoorthy Oodayavar.
		Mylapoor ...	Cutcherry Road ...	89	Do. ...	...	3	1,692	Mahomedans, Soonee Sect.	Syed Assadoollah Saib and another.	Syed Assadoollah Saib and another.
		Do. ...	Barber's Bridge Road ...	...	Do. ...	...	...	1,994	Do. ...	Kawder Bee ...	Kawder Bee.
		Mylapoor Kistnampet.	Mylapoor High Road ...	3-99	Do. ...	...	3	1,902	Mahomedans of Shea Sect.	Jul Fakeerally Shaw ...	Jul Fakeerally Shaw.
		Kistnampet ...	Barber's Bridge Road ...	...	Do. ...	...	...	1,225	Owner's family ...	Abdulvah Khan Bahadur ...	Abdulvah Khan Bahadur.
		Do. ...	Do. ...	...	Do. ...	...	6	1,050	Family of a brother of the late Nabob.	H. H. The Prince of Arcot ...	Ahmed Moideen Khan Bahadur, Secretary to H.H. The Prince.
		Do. ...	Do. ...	...	Do. ...	...	...	588	Mahomedans ...	Mahomed Abeebullah Saib ...	Mahomed Abeebullah Saib.
		Do. ...	Do. ...	...	Do. ...	...	3	2,312	Do. ...	Syed Mahomed Baker Saib ...	Syed Mahomed Baker Saib.
		Do. ...	Do. ...	...	Do. ...	...	...	1,741½	Do. ...	Hageemahomed Gouse Saib ...	Hageemahomed Gouse Saib.
		Do. ...	Do. ...	...	Do. ...	...	18	1,200	Do. ...	His Highness The Prince of Arcot.	Ahmed Moideen Khan Bahadur, Secretary to His Highness The Prince.

List of Burial and Burning Grounds registered under the City of Madras, &c.—(*Continued.*)

Division.	Ward.	Village.	Street.	Door Number.	Whether Burial or Burning Ground.	Measurement of the Ground. Cawnies.	Grounds.	Square Feet.	Class of Persons Buried or Burned.	Name of the Owner or the Person having the control thereof.	Name of the Party who registered.
8th.	North.	Kistnampet ...	Barber's Bridge Road ...	...	Burial Ground ...	...	...	1,811	Mahomedans ...	Mahomed Abdool Rasool Saib ...	Mahomed Abdool Rasool Saib.
		Mylapoor ...	Do. ...	...	Do. ...	...	1	461	Do. ...	Kawderally Khan Bahadur ...	Kawderally Khan Bahadur.
		Kistnampet ...	Do. ...	...	Do. ...	...	...	876	Do. ...	Mahomed Abdul Rasool Saib ...	Mahomed Abdul Rasool Saib.
		Do. ...	Do. ...	...	Do. ...	...	...	840½	Do. Soonee Sect.	Mahomedeen Saib ...	Mahomed Afzal.
		Do. ...	Do. ...	...	Do. ...	...	...	1,200	Do. ...	Mahomed Causim Saib ...	Mahomed Causim Saib.
		Do. ...	Do. ...	...	Do. ...	...	...	118 1/16	Do. do. ...	Abdul Cawder Saib ...	Abdul Cawder Saib.
		Mylapoor ...	Do. ...	...	Do. ...	...	...	2,177	Do. do. ...	Ameer Naras Jung ...	Ameer Naras Jung.
		Kistnampet ...	Do. ...	...	Do. ...	...	...	473	Do. do. ...	Do. ...	Do.
		Do. ...	Do. ...	81	Do. ...	...	5¼	10	Do. do. ...	Agee Mowlee Mahomed Cawder Moideen Saib.	Agee Mowlee Mahomed Cawder Moideen Saib.
		Do. ...	Do. ...	...	Do. ...	...	...	716'-91¼"	Do. do. ...	Mahomed Zinda Saib Mooligar...	Mahomed Zinda Saib Mooligar.
		Mylapoor ...	Do. ...	...	Do. ...	...	...	867	Do. do. ...	Zynoolabtheen Saib Makee ...	Zynoolabtheen Saib Makee.
		Do. ...	Do. ...	...	Do. ...	...	...	283½	Do. do. ...	Goolam Dustagheer Saib ...	Goolam Dustagheer Saib.
		Do. ...	Goanes North Lane ...	...	Do. ...	...	1	850	Mahomedans ...	Akeem Meer Mahomed Bakaliam Saib.	Akeem Meer Mahomed Bakaliam Saib.
		Do. ...	Barber's Bridge Road ...	...	Do. ...	...	...	1,102½	Do. of Soonee Sect.	Maluk Mahomed Thabee Alikan Saib.	Maluk Mahomed ThabeeAlikan Saib.
		Kistnampet ...	Do. ...	...	Do. ...	...	1	408	Do. do. ...	Rubuthjung Bahadur ...	Rubuthjung Bahadur.
		Mylapoor ...	Do. ...	...	Do. ...	...	...	580	Do. do. ...	Surfrazool Dowlah Bahadur ...	Surfrazool Dowlah Bahadur.
		Kistnampet ...	Do. ...	...	Do. ...	...	1	146½	Do. do. ...	Agee Mowlee Mahomed Hoosain Saib.	Agee Mowlee Mahomed Hoosain Saib.
		Do. ...	Do. ...	...	Do. ...	...	7	471½	Mahomedans ...	Goolam Mahomed Khan ...	Goolam Mahomed Khan.
		Do. ...	Do. ...	...	Do. ...	...	...	189	Do. Soonee Sect.	Laul Mahomed Saib Jerrah ...	Laul Mahomed Saib Jerrah.
		Do. ...	Do. ...	...	Do. ...	...	...	181½	Do. do. ...	Do. ...	Do.
		Nadooccoppam ...	None ...	...	Do. ...	...	4	...	Mahomedans ...	Syed Mahomed Moosa Saib and another.	Syed Mahomed Moosa Saib.
		St. Thome, Nadooccoppam, Kistnampet.	Venkuttarunga Pillay Street...	4,230	Do. ...	1	18	1,261	Do. ...	Jabber Allyshaw Mokandar ...	Jabber Allyshaw Mokandar.
		Do. ...	Do. ...	...	Do. ...	...	1	48	Do. ...	Hajee Ahmed Hoosain Saib ...	Hajee Ahmed Hoosain Saib.
		Kistnampet, Mylapoor.	Barber's Bridge Road ...	...	Do. ...	...	...	483⅔	Mahomedans, Soonee Sect.	Agee Akeem Ally Moosa Rasa Saib.	Agee Akeem Ally Moosa Rasa Saib.
		Kistnampet ...	St. Thomé ...	...	Do. ...	...	...	740	Do. ...	Fakeer Ahmed Saib ...	Fakeer Ahmed Saib.
		St. Thomé ...	Venkuttaranga Pillay Street...	...	Do. ...	...	...	1,112	Do. ...	Mahomed Sherif and another ...	Emam Saib.
		Kistnampet ...	Barber's Bridge Road ...	...	Do. ...	...	2	198	Mahomedans ...	Davoodkan Saib ...	Davoodkan Saib.
		Mylapoor ...	Do. ...	...	Do. ...	...	5	408½	Do. ...	Azeem Hoosain Saib ...	Azeem Hoosain Saib.
		Do. ...	Venkuttaranga Pillay Street...	...	Do. ...	...	14	464½	Do. ...	Do. ...	Messrs. Branson and Branson.
		Kistnampet ...	Barber's Bridge Road ...	...	Do. ...	...	1	246	Do. Soonee Sect.	Azeezul Dowlah Bahadur ...	Azeezul Dowlah Bahadur.
		St. Thomé ...	Do. ...	...	Do. ...	...	3	1,709	Do. ...	Mahomed Nooroodien ...	Mahomed Nooroodien.
		Mylapoor ...	Do. ...	68	Do. ...	...	...	874	Owner's family ...	Mahomed Kawder Hoosain Saib.	Mahomed Kawder Hoosain Saib.
		Do. ...	Do. ...	60	Do. ...	...	...	740	Do. ...	Mahomed Hamnootheen Hoosainkan Bahadur.	Mahomed Hamnootheen Hoosain Kan Bahadur.
		Do. ...	Do. ...	...	Do. ...	...	...	1,125	Do. ...	Do. ...	Do.
		Kistnampettah ...	Do. ...	...	Do. ...	...	2	1,568	Do. ...	Abthaveth Mahomed Aroobeeya Saib.	Abthaveth Mahomed Aroobeeya Saib.

List of Burial and Burning Grounds registered under the City of Madras, &c.—(*Continued*).

Division.	Ward.	Village.	Street.	Door Number.	Whether Burial or Burning Ground.	Measurement of the Ground.			Class of Persons Buried or Burned.	Name of the Owner or the Person having the control thereof.	Name of the Party who registered.
						Cawnies.	Grounds.	Square Feet.			
8th	South.	St. Thomé ...	St. Thomé High Road ...	84	Burial Ground ...	1	5	900	Europeans, Eurasians, and Natives.	Rev. Dr. J. M. Strachan ...	Rev. Dr. J. M. Strachan.
		Mylapoor ...	Yelapatha Madah Covil Road..	1	Do. ...	...	22	750	Mahomedans of Soonee Sect.	Mushrufashaw Sirgeroo ...	Mushrufashaw Sirgeroo.
		St. Thomé ...	Greenway's Road ...	84	Do. ...	1	4	1,658 11/36	Europeans, East Indians, and Natives.	Owner, Right Rev. Dr. S. Fennelly; Controller, Rev. E. M. Angelo.	Rev. E. M. Angelo.
		Mylapoor ...	Appavoo Moodelly ...	8	Do. ...	...	6	1,005	Mahomedans, Soonee Sect.	Syed Goolam Hoossain and Syed Vahah Hoossain Saib.	Syed Goolam Hoosain and Syed Vahah Hoossain Saib.
		Do. ...	Appoo Moodelly's Choultry Street.	...	Do. ...	...	4	600	Owner's family ...	Abdulvahab Khan Bahadur ...	Abdulvahab Khan Bahadur.
		Alwarpet ...	Alwarpet Street ...	...	Burial and Burning Ground.	...	6	560	Hindus of all classes ...	Owner, Municipal Commissioners; Controller, Overseer of the Ward.	Sanitary Inspector, South Range.

J. A. JONES, C.E.,
Vice-President.

PUBLIC WORKS AND CONSERVANCY DEPARTMENTS.

LIGHTING.

The lighting throughout the year was done on contract by C. Balakistna Moodelly and Co., at a rate per lamp of Rs. 1-3-9 for each lighting season which is 20 days. The rate in 1878 was Rs. 0-15-3.

The contract on the whole has been fairly carried out and the increased rate over 1878 was due to the introduction of larger burners and consequently a greater consumption of oil.

The following table shows the lamps in each division at the beginning and at the end of the year, the net increase being 55 lamps. Lamps were reduced on the Government House, and Wallajah Bridges and in Napier Park Gate.

Division.	No. of lamps on 31-12-78.	No. fixed during 1879.	No. of lamps removed.	Total on 31-12-79.	Remarks.
1	123	14	...	137	
2	360	16	...	376	
3	315	8	...	323	
4	66	1	...	67	
5	301	12	...	313	
6	116	7	*...	123	Wallajah Bridge... 8.
7	322	13	22	313	Govt. House ,, ... 10.
8	222	6	...	228	Napier Park Gate. 4.
Total ...	1825	77	22	1880	

There were 12 lighting seasons and the inspection of the lighting was as in previous years carried out by 10 Inspectors.

The following table shows the amount of payments to and the fines levied on the Contractors during the year

Season.	Amount of Bill.			Fines.		
January ...	2,183	9	9	*95	0	0
February ...	2,184	13	6	26	8	0
March ...	2,188	2	2	38	15	0
April ...	2,196	4	5	45	5	0
May ...	2,231	8	10	29	13	0
June ...	2,230	4	11	71	8	0
July ...	2,215	7	1	29	10	0
August ...	2,219	6	6	34	8	0
September ...	2,216	15	0	29	2	0
October ...	2,233	4	2	28	6	0
November ...	2,239	2	6	107	6	0
December ...	2,250	2	1	52	2	0
Total...	26,589	0	11	588	3	0

The lighting in many places is still deficient and lamp posts are being erected from time to time in places where they seem most urgently called for.

The suburban districts are very sparsely lit but it is very uncertain whether they ever will be well lit owing to their great extent and small population. The main places which require lights are the smaller and hence darker streets of the densely populated parts of the city and to these must our attention be first devoted

* Excused as being first month of contract.

PUBLIC WORKS AND CONSERVANCY DEPARTMENTS.

FIRE ENGINES.

There has been no increase in the number of the Engines since last year, and it is to be regretted that funds were not available for substituting some of the smaller Engines by larger and more powerful ones. The same Engines mentioned in last report were maintained at a cost of Rs 1,345-14-7. This amount includes a sum of about Rs. 12 paid monthly to the Police for exercising trained coolies who live in the neighbourhood of the Stations, in working the Engines, as in cases of emergency these coolies would be of great use.

No alteration has been made in the Stations and they are as follows :--

Municipal Office	1
Elephant Gate near Police Tannah	1
Vepery Central Police Station	2
Triplicane Vencatasawmy Naidoo's Market	1
Mylapore Cutcherry Road near Tannah...	1

The only Fire which occurred during the year was at the Fire works shops in Wall Tax Road on the 12th February last.

REPORT UPON THE PROGRESS OF WORK IN THE ROBINSON PARK.

At a meeting on the 2nd May 1879 of the Chairman, the Hon'ble J. G. Coleman, and Members of the Robinson Park Committee, it was resolved that J. A. Jones, Esq., Executive Engineer, Madras Municipality, and Dr. D. R. Thompson, Secretary to the Park Committee, should undertake the arrangements for laying out the grounds as planned by the former Officer, and approved by the Committee.

The funds collected since by subscription amount to Rs. 907-6-0. This sum has been set apart for more particular purposes, and no other funds being available, the Grass Sewage Farm, forming a part of the Park—was handed over to the Secretary, with power to employ the proceeds from the sale of Grass for the maintenance of the Farm, and the purposes of the Park.

Since the Sewage Farm was made over to the Secretary on the 14th August 1879, the quantity of Grass sold up to the 30th June 1880 amounts to 257,780 pounds, which at the rate of 30 pounds for Annas 2, realized Rupees 1,079-5-1.

With this money coolies and gardeners were employed, and the following works were executed.

The situation of the gates has been properly defined and marked out; and the broad roads for carriage drives through the Park traced and definitely skirted by grass ridges, thus forming the plots intended for ornamental grounds, flower beds, sites for the excavation of tanks, and construction of Islands.

PUBLIC WORKS AND CONSERVANCY DEPARTMENTS.

The main road through the Park has been planted with an avenue of Mahogany trees, and small triangular grass plot—the first plot laid out in the Park, was planted on the 12th September by a lady with a "Rain Tree."

The large plot adjacent to the main gate of the Western entrance to the Park, has been levelled, grass planted throughout, skirted by "Jack Trees" planted 30 feet apart, and studded by other fruit trees of varieties, calculated to afford shade and to be productive. Another plot of very nearly the same size as the one above, and like it requiring much labour to complete it, has been carefully levelled and grass planted throughout.

The most ornamental plot on the plan, formed of prettily shaped flower beds, and divided by garden walks has been carefully levelled and laid out. This piece which was very irregular and low lying, required much labor for its completion and cost 90 Rupees, towards the payment of which a sum of Rupees 60 was received from Native gentlemen who visited the place at the time the work was undertaken. The soil for laying out and levelling this place was taken from another plot where a tank has to be dug, and so much earth was required for this purpose, that the tank has been excavated to the depth of 4 feet, which work in itself, is worth the Rupees 90 paid for the levelling of the grounds.

The Band Stand, position for the new tanks, the plot on which the Superintendent's quarter is to be built, and that on which the flag staff is to be erected have been laid out, and the two former brought to the road level and planted with grass.

All the paths entering into the formation of the maze have been marked out, two of these fenced by a Korakapoly hedge, and a tree planted in the centre.

The old tank situated on the north side of the ground, has been marked, and a broad road which is at its western end, has been planted on both sides with Mango and Jack trees 30 feet apart. The earth taken from this tank for the embankment is sloped at 2 to 1.

The Sewage Farm has been extended a hundred feet, and planted with grass. Shady trees of varieties have been planted 30 feet apart along the boundaries of the Park, and the side curves fenced with Korakapoly plants. Other works are in steady progress.

D. R. THOMPSON, M.D.,
Secretary, Robinson Park Committee.

MADRAS,
8th July 1880.

PUBLIC WORKS AND CONSERVANCY DEPARTMENTS.

Statement showing the amount of subscriptions received on account of Robinson Park, for 1879.

Names.	Amount.		
	Rs.	a.	p.
M. Percy, Esq. ...	18	6	0
A. P. Begbie, Esq. ...	17	8	0
Mr. J. Norman, Apothecary ...	31	8	0
P. S. Ramasawmy Moodelliar, Esq. ...	100	0	0
P. Moonesawmy Chettiar, Esq. ..	100	0	0
Hon'ble J. G. Coleman ...	100	0	0
A. M. Hooper, Esq. ...	100	0	0
A. Arroomoogum Moodelliar, Esq., ...	30	0	0
Dr. D. R. Thompson, M.D., C.I.E. ..	50	0	0
Through Dr. D. R. Thompson, M.D., C.I.E.	100	0	0
L. R. Burrows, Esq. ...	100	0	0
A. M. Saunders, Esq. ...	100	0	0
Rupees...	847	6	0

D. R. THOMPSON, M.D.,
Secretary, Robinson Park Committee.

MADRAS, *February* 1880.

Statement showing the Expenditure incurred on account of Robinson Park, from July to December 1879.

——	July.			August.			Septem-ber.			October.			Novem-ber.			Decem-ber.			Total.		
	RS.	A.	P.	RS.	A.	P.	RS.	A.	P.	RS.	A.	P.	RS.	A.	P.	RS.	A.	P.	RS.	A.	P.
On servants' wages.	...	...	...	50	12	5	83	6	2	123	1	1	122	13	10	114	10	6	494	12	0
On contracts ..	...	...	...	...	...	...	...	...	..	58	0	0	...	...	...	...	...	...	58	0	0
On miscellaneous charges ...	5	0	0	17	4	0	17	14	11	0	2	0	...	...	...	2	8	0	42	12	11
Total ..	5	0	0	68	0	5	101	5	1	181	3	1	122	13	10	117	2	6	595	8	11

MADRAS,
February 1880.

D. R. THOMPSON, M.D.,
Secretary, Robinson Park Committee.

Dr. *Cash Account of Robinson Park, from July to December* 1879. *Cr.*

1879			RS.	A.	P.	1879			RS.	A.	P.
Dec.	31	To Subscriptions received ...	847	6	0	Dec.	31	By expenditure on servants ...	494	12	0
		„ Grass sold ...	526	15	4			„ Do. contracts ...	58	0	0
								„ Miscellaneous expenses ..	42	12	11
								Total Rs...	595	8	11
								RS. A. P.			
								Outstanding bills ... 28 7 1			
								Balance in hand ... 750 5 4			
									778	12	5
		Total Rs....	1,374	5	4			Total Rs...	1,374	5	4

MADRAS,
13*th February* 1880.

D. R. THOMPSON, M.D.,
Secretary, Robinson Park Committee.

PUBLIC WORKS AND CONSERVANCY DEPARTMENTS.

Statement showing the quantity of Grass sold in each month and the amount realized from Robinson Park Sewage Farm from August to December 1879.

Months.	Quantity of Grass sold.	Amount realized.		
	Pounds.	Rs.	A.	P.
August 1879 ...	7,300	36	0	5
September ,, ...	30,205	125	13	8
October ,, ...	39,800	165	13	4
November ,, ...	41,768	174	0	6
December ,, ...	6,051	25	3	5
	125,124	526	15	4

D. R. THOMPSON, M.D.,

MADRAS, *February* 1880. *Secretary, Robinson Park Committee.*

PUBLIC WORKS AND CONSERVANCY DEPARTMENTS.

TABLE No. 1.

NEW WORKS IMPROVEMENTS.

Buildings.

	Rs.	A.	P.
Constructing shed for the Workshop in Cart Depôt, Annapillay Street ...	796	15	10
do Brick and Mud wall for the workshop in lieu of the Bamboo Fence	126	15	9
Fixing broken bottles over the compound wall around the Workshop at Trevelyan Water Works	10	7	2
Constructing compound wall to the cart stand in Wall Tax Road ...	511	7	6
Erecting a gate in the West compound wall and altering the gate in the East wall of the Workshop	21	6	9
do a male and female latrines Chetput Parchery	114	0	0
do do do Chetput village	114	0	0
Total...	1,695	5	0

TABLE No. 2.

Dust Bins.

	Rs.	A.	P.
Erecting masonry 1 dust bin in Kistna Pillay Street ...	6	0	0

TABLE No. 3.

New Drains.

Length Feet.		Rs.	A.	P.
405	Constructing a underground drain with 5 cess pits in North Beach Road from Jaffer Serang lane to Gopaul Chetty lane...	496	15	1
5½	do a cesspit, &c., at the South West Angle of Avadanam Paupier Street joining Perambore Barracks Road ...	29	2	1
8½	do a cistern water-course and a facing wall at the Junction of the main drain and Regimental drain near Monegar Choultry Slaughter House	76	14	3
117	do a tile drain at the north end of Appasawmy Moodelly Street	65	12	0
4½	do 2 stink traps in Davidson's Street	57	4	0
210	do 4 tile drains with concrete both sides in lieu of centre drain in Mooneappa Alley, Black Town ...	42	2	0
863	do side drain in the Narasimalala Street, &c., Triplicane...	290	14	10
26	do cross drains in Jana Jan Khan Bahadoor lane joining Andeappen Street and Farose Hoossain Saib Street	29	13	2
273	do a masonry covered drain in Chellamoothoo Moodelly Street from Coral Merchant Street to Ramaswamy Street	151	8	10
150	do a masonry covered drain in Salavenayagar Covil Street	81	6	0
180	do side drain in Colundavalen Street, North ...	128	15	0
150	do do adjoining Choolay Slaughter House ...	91	0	0
335	do do in east Madah Church Road and Ammen Covil Street...	648	0	0
72	do do at the north end of Annoomantharayen Covil Street	23	4	10
1385	do do in Sathana Naik Street	1,024	0	0
480	do do Avadanam Paupier Road ...	241	0	0
31¼	do do Cesspit with an Iron grating and an under ground drain at the east end of Jaffer Seerong Street adjoining north Beach	39	8	1
12	do a cross drain Perambore High Road & Chucklypalyam	16	14	0
	Paid to Mr. Moore for preparing Plans, taking levels and sundries	1,189	12	8
	Land purchased	655	4	0
	Total...	5,379	6	10

APPENDIX IV.

PUBLIC WORKS AND CONSERVANCY DEPARTMENTS.

TABLE No. 4.

MAINTENANCE OF BUILDINGS.

Slaughter Houses.

	Rs.	A.	P.
Repairing the Superintendent's Quarters of the Slaughter House at Perambore	50	0	0
Do. the Triplicane Slaughter House at Chetty's Garden ..	278	0	0
Do. do. do. Superintendent's Quarter ...	10	15	5
Total...	338	15	5

TABLE No. 5.

General Market.

	Rs.	A.	P.
Constructing Cesspit, raising granite floor and repairing side drains in General Market	47	9	7
Pointing the granite floor of the foot-paths in General Market, Black Town	464	6	4
Erecting Bamboo Tatty Pandall over stall occupied by Mr. Brown ...	6	7	6
Repairing the tiled portion of a room in General Market ...	2	14	10
Total..	521	6	3

TABLE No. 6.

Table showing the Latrines and Urinals that were repaired.

	Rs.	A.	P.
Raising and plastering side walls of the male latrine in Moottam Cooppum	165	10	7
Erecting mud wall latrines in Lalagunta Lane, and Cochrane Basin Road	152	12	6
Rebuilding the western wall of the female latrine in Chellappa Moodelly Street, Cosapettah	114	0	0
Do. the male and female latrines in the Beach, opposite to Clive's Battery	41	13	0
Erecting a masonry pillar near the latrine at Washermenpettah, Esplanade, for holding a Bucket	13	3	11
Repairing male and female latrines at Alwarpet	54	5	2
Constructing male and female latrines at Ponnappa Moodelly Street and Saravanaperoomal Street	239	5	0
Do. male and female mud wall latrines in the Perambore Chucklia Palliam	154	15	2
Repairing male and female latrines in Mathalamcherry Street ...	116	6	6
Do. do in Notchee Cooppam ...	98	0	0
Do. do. in Ice House Cooppam ..	75	0	0
Constructing 2 cisterns for a male latrine in Annoomonthuroyen Covil Street, Triplicane	11	8	9
Plastering and whitewashing the latrines in the Washermenpettah Esplanade and Lalagunta Lane	105	2	7
Constructing masonry platforms near the latrines at Basin Bridge Road, Cochrane Basin Road and Lalagunta Lane ...	52	7	0
Repairing and making new openings to the latrines in Singana Chetty Street, Chintadrepettah	70	0	0
Rebuilding the male and female tatty latrines in the Beach near Clive's Battery	60	4	0
Repairing the male latrines in Riverside Road	46	0	0
Plastering the walls of latrines in Lang's Garden Road	69	0	0
Constructing a female latrine in Veera Chetty Samady Street ...	110	6	0
Do. a male latrine in Pole Naick Street, Pooliamtope ...	144	7	10
Do. a female latrine in Cootteathumbooran Street, Pooliamtope.	144	3	8
Repairing the latrine in Cemetery Road, Washermenpettah ...	138	0	0
Erecting a screen wall inside of the model male latrine in Mount Road.	2	9	6

PUBLIC WORKS AND CONSERVANCY DEPARTMENTS.

TABLE No. 6.

Table showing the Latrines and Urinals that were repaired.—continued.

	RS.	A.	P.
Repairing the male and female latrine in Codumbaukum Road ..	6	0	0
Do. tatty latrines in Codumbaukum Road	6	14	0
Do. do. in South Beach Coopum	8	0	0
Constructing a cistern for the use of the latrine in Ice House Road.	2	3	10
Do. cisterns for the use of the male latrines in Venkata-runga Pillay Street	8	10	11
Do. new cisterns to the latrines in Davaraja Moodelly Street	8	10	11
Raising the floors and repairing cisterns of male latrine in Sydenham's Road	7	12	6
Repairing the cisterns of the male and female latrines at Sawmy Naick Parcherry	7	12	6
Rebuilding a portion of the parapet wall of well attached to latrines in Sundra Pillay Street	3	8	9
Repairing tatty latrines in Madancooppam	9	4	0
Raising floor of latrines in Sydenhams Road	8	15	9
Repairing tatty latrines in Simmon Parcherry	19	12	0
Do. do. do. Codumbaukum Road	6	8	0
Do. do. do. Saravana Perumal Street	34	8	0
Do. do. do. Ponnappa Moodelly Street	48	6	9
Do. side walls of latrines in Vassapoomode Parcherry ...	6	1	0
Total...	2,377	10	1

TABLE No. 7.

Table shewing the repairs, &c. done to Office Premises.

	RS.	A.	P.
Repairing and whitewashing Municipal Office	469	7	10
Breaking down the verandah, erecting the parapet wall of the well, and repairing the latrine	44	2	10
Repairing and painting the doors and windows of the Municipal Office ..	152	0	0
Repairing the Record room of the Municipal Office	30	11	0
Total...	696	5	8

TABLE No. 8.

Toll Gates.

	RS.	A.	P.
Repairing the wooden Toll Gate in Sterling's Road	26	13	2
do Toll Gates of Terevatoor and 2 other Gates	21	12	6
do do Codumbaukum Road	10	9	6
Total...	59	3	2

TABLE No. 9.

Stores and Workshops.

	RS.	A.	P.
Repairing Municipal Store Rooms in the Trevelyan Water works, Black Town	142	6	2
do do do do	24	14	3
Total...	167	4	5

PUBLIC WORKS AND CONSERVANCY DEPARTMENTS.

TABLE No. 10.

Table shewing the number of Dust Bins repaired.

				Rs.	A.	P.
Repairing dust bins in Sawmy Naik Road, Iyah Moodelly Street and Kalava Chetty Street...				135	0	0
do	1	dust bin in	Nariyangadoo Parchery ...	1	15	7
do	1	do	Veeraragavan Parchery Street ...	4	13	1
do	1	do	Sawmy Chetty Street, Komaleeswaranpettah ...	1	2	4
do	1	do	General Pater's Road	1	5	0
do	1	do	Front of house No. 2 and 3 Ice House Road ...	1	0	0
do	2	do	Narainappa Naick Street and Nyneappen Street ...	2	11	3
Constructing masonry dust bin in Kistna Pillay Street				4	8	6
Repairing 3 dust bins in Colunda Gramany Street, Ponnappa Moodely Street and Taucker's Street				2	8	0
do	2	masonry dust bins in	Gosa Saib lane, Black Town ...	5	7	1
Shifting 1 Cuddapah stone dust bin from Perambore Barracks Road to Moocathal Road, Pursevaukum				2	7	10
Repairing 5 masonry dust bins in Culmundapam Road, Gouse Moideen Street, and Cemetery Road				9	11	11
do	1	masonry dust bin in	Triplicane High Road	4	13	3
do	5	dust bins in	Mint Street	8	13	5
do	5	do	do	8	10	6
do	1	do	Vengoo Pillay Street	2	4	9
do	5	do	Govindappa Naik Street	9	7	9
do	1	do	DeMellow's Road near Spinning Mills... ...	5	0	0
do	5	do	Govindappa Naick Street	10	0	0
do	1	do	Sawmy Chetty Street	1	13	0
			Total...	223	9	3

TABLE No. 11.

MAINTENANCE OF ROADS.

The quantity of work done during the year is shown in the table annexed in detail, thus :—

	Squares.	Mileage.		
		M.	E.	Yds.
Laterite Gravel and Clay	24,715·60	27	3	29
Laterite and Gravel	5,906·43	6	6	148
Granite and Gravel	11,107·31	11	0	131
Brick Jelly	541·65	0	5	7
Gravel	656·95	1	6	105
Total...	42,927·94	47	5	200

TABLE No. 12.

Table showing the number of squares and length of Roads reformed in each Division.

Divisions.	Thickness.	Laterite, Gravel and Clay.								Laterite and Gravel.								Granite and Gravel.								Total.					Remarks.
		Squares.		Rate.			Length.			Squares.		Rate.			Length.			Squares.		Rate.			Length.			Squares.		Length,			
	Inch.			Rs.	A.	P.	M.	F.	Yds.			Rs.	A.	P.	M.	F.	Yds.			Rs.	A.	P.	M.	F.	Yds.			M.	F.	Yds.	
1	4	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	.	...	..	...	..	...	84	84	0	2	31	Reformed with old bricks and clay.
	...	5,640	61	2	0	0	6	1	105	...	...	...	...	...	...	..	...	696	10	2	15	1	0	5	113	6,336	81	6	6	218	
	3	243	60	1	7	8	...	2	218	...	...	...	...	...	...	...	...	...	...	...	..	...	...	..	...	243	60	0	2	218	
2	3	...	...	...	...	...	...	...	...	...	...	...	..	...	...	...	...	...	...	...	...	...	...	...	...	243	27	0	0	165	[and clay. Reformed with brick
	3	303	77	1	5	10	...	...	198	...	...	...	...	..	...	...	...	...	...	...	.	...	...	...	...	303	77	0	0	198	
	4	1,943	43	1	12	3	2	3	78	...	...	...	...	...	...	...	...	1,507	85	2	10	0	1	1	101	3,451	28	3	4	179	
3	3	...	...	...	...	...	...	...	...	...	...	...	..	...	...	..	...	...	...	..	...	...	...	...	...	42	24	0	0	113	[jelly. Reformed with brick
	...	18	..	1	7	8	...	...	33	...	...	..	...	...	...	..	...	...	..	...	...	...	...	...	...	18	0	0	0	33	
	4	3,088	99	2	0	0	3	0	11	411	36	2	2	6	0	3	143	1,668	57	2	15	1	1	6	38	5,168	92	5	1	192	
	2	...	...	...	...	...	...	...	...	...	...	...	...	...	...		...	338	0	1	8	0	0	1	155	338	0	0	1	155	
4	4	4,436	40	1	11	9	4	4	55	..	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	4,436	40	4	4	55	
	6	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	35	90	3	15	0	0	0	69	35	90	0	0	69	
5	3	...	...	...	...	...	...	...	...	...	...	...	...	...	..	...	...	...	...	...	...	...	...	...	...	118	80	0	1	28	[jelly. Reformed with brick
	3	57	...	1	5	9	...	...	127	...	...	...	...	...	...	...	...	...	...	..	..	...	...	...	...	57	0	0	0	127	
	3	60	...	1	9	7	...	...	133	...	...	...	...	..			...	118	50	1	15	9	0	0	54	178	50	0	0	187	
	2	636	50	...	15	5	...	6	157	...	...	...	...	...	...	...	..	...	...	...	..	...	...	...	...	...	636	50	0	6	157	
	4	3,510	90	1	11	9	4	2	152	...	...	...	...	...	...	...	...	642	...	2	10	6	0	5	23	4,152	90	4	7	175	
	5	351	55	2	0	10	...	3	111	...	...	...	...	..	...	...	...	...	...	...	...	...	...	...	...	351 656	55 95	0 1	3 6	111 105	[only. Reformed with gravel
	6	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	143	...	3	14	0	0	3	73	143	0	0	3	73	
6	2	...	...	...	...	...	...	...	...	1,095	...	1	5	3	1	3	13	...	...	...	...	...	..	...	...	1,095	0	1	3	10	
	3	241	50	1	11	8	...	2	96	...	...	...	...	...	...	...	...	..	...	...	...	...	...	...	..	241	50	0	2	96	
	4	1,152	90	2	3	10	1	5	92	...	...	...	...	...	...	...	...	1,186	50	2	14	0	1	1	54	2,339	40	2	6	146	
	5	1,047	...	2	12	0	...	7	205	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	1,047	0	0	7	205	
7	3	243	...	1	11	8	..	1	185	183	57	1	13	11	0	1	92	103	44	2	1	8	0	1	67	530	1	0	4	124	
	4	1,740	45	2	3	10	1	6	53	...	...	...	...	...	...	...	...	2,050	35	2	14	0	2	2	76	3,790	80	4	0	129	
	5	...	...	..	...	...	...	...	...	...	...	...	...	...	...	...	...	120	50	3	6	10	0	1	16	120	50	0	1	16	
8	3	...	...	...	...	..	...	...	...	...	...	...	...	...	..	...	...	...	...	...	...	...	...	...	...	52	50	0	0	110	[jelly. Reformed with brick
	3	...	...	...	...	..	...	...	...	1,744	75	1	13	11	2	1	200	...	...	...	...	...	...	...	...	1,744	75	2	1	200	
	2	...	...	...	...	...	...	...	...	...	...	...	.....		...	...	...	27	50	1	9	6	0	0	17	27	50	0	0	17	
	4	...	...	...	...	...	...	...	...	811	75	2	5	0	1	0	14	2,469	...	2	14	0	2	2	155	3,280	75	3	2	169	
	5	...	...	...	..	...	...	...	...	1,660	...	2	12	0	1	4	126	...	...	...	...	..	...	...	...	1,660	0	1	4	126	
Total...	...	24,715	60	...	...	...	27	3	29	5,906	43	...	.....		6	6	148	11,107	31	..	...	...	11	13	10	42,927	94	47	5	200	

TABLE No. 13.

MAINTENANCE OF ROADS.

Statement of works completed during 1879 *from January to December.*

Estimate Number.	Division.	Name of Roads.	Amount of Estimate.			Amount of Bill.			Amount paid during the year.			Amount not paid.			Length.			Breadth.	Thickness.	Squares.
1879			Rs.	A.	P.	Rs.	A.	P	Rs.	A.	P.	Rs.	A.	P.	M.	F.	Yds.	Ft.	In.	
7	1st	Reforming Kattivaukum High Road between Mannally Road and the limits of 1st Division westward	2,032	12	9	2,032	12	9	2,032	12	9	...	...	...	1	4	183	12	4	1016·40
64	...	Do. Mannally Sewage Farm Road between Mannally Road and unfinished portion South of Wooden Bridge	132	0	0	132	0	0	132	0	0	...	...	...	...	...	148	12	4	66·
65	...	Do. Mannally Road from Kattivaukum Road to Mannally Sewage Farm Road.	532	6	9	532	6	9	532	6	9	...	...	...	...	2	87	15	4	266·21
66	..	Forming Roadway near canal bank at Mannally Sewage Farm between Mannally Bridge and Wooden Bridge	296	15	1	296	15	1	296	15	1	...	...	..	...	2	31	12	4	84·84
85	...	Reforming centre of Thiruvatore High Road, from Cumbalammen Street to limit	2,221	3	2	2,221	3	2	2,221	3	2	...	...	...	1	1	77	18	4	1110·60
106	...	Do. Munnarsamy Covil Street, from Ebramjee Saib Street to Cemetery Road, Royapooram	1,315	15	8	1,313	2	2	1,313	2	2	..	...	...	...	3	...	22	4	447·20
107	...	Do. East Madah Church Road from North Railway Terminus to North Madah Church Road...	525	0	0	525	0	0	525	0	0		...	..	...	2	123	15	4	262·50
108	...	Do. Southside Madah Church Road from Westside of Madah Church Road to East Madah Church Road, Royapooram	221	9	7	221	9	7	221	9	7	...	...	...	...	...	190	15	4	110·80
130	...	Do. A portion of West Madah Church from North Madah Church Road to North Railway Terminus Road, Royapooram	515	6	5	515	6	5	515	6	5	...	...	...	...	2	114	15	4	257·70
131	...	Do. West Madah Church Road from north Madah Church to Culmundapam Road	413	1	11	413	1	11	413	1	11	...	...	...	...	2	4	15	4	206·56
132	...	Do. Gouse Moideen Road from Culmundapam to Flag Staff Road, Royapooram	562	6	5	562	6	5	562	6	5	...	...	...	...	2	173	15	4	281·20
133	...	Do. The Road over East approaches from Road over Railway Bridge to north Railway Terminus Road, Royapooram	311	3	2	311	3	2	311	3	2	...	...	...	...	1	6	20	4	155·60
134	...	Do. North Railway Terminus Road from East approaches to East Railway Terminus Road, Royapooram	335	0	0	335	0	0	335	0	0	..	...	...	...	1	90	15	4	167·50
137	...	Do. Gollawar Agrarum Road from Cumbalammen Covil Road to house No. 26 at Thondayarpett	732	11	9	731	12	9	731	12	9	...	..	...	...	2	113	15	4	249·
138	...	Do. Cochrane Basin Road from Basin Bridge to Kuttivaukum Road Junction	1,439	11	6	1,439	11	6	1,439	11	6	...	...	...	...	7	23	15	4	719·36
156	...	Do. Pathalavignaswarar Covil Road from Andiappa Gramany Street to Culmundappan Road	447	1	11	447	1	11	447	1	11	...	...	...	...	2	174	12	4	223·56
		Carried over...	12,034	10	1	12,030	13	7	12,030	13	7	...	...	...	6	7	216	..	...	562·553

MAINTENANCE OF ROADS—(continued).

Statement of works completed during 1879 *from April to December.*—(continued.)

Estimate Number.	Division.	Names of Roads.	Amount of Estimate.			Amount of Bill.			Amount paid during the year.			Amount not paid.			Length.			Breadth.	Thickness.	Squares.
			Rs.	A.	P.	Rs.	A.	P.	Rs.	A.	P.	Rs.	A.	P.	M	F.	Yds.	Ft.	In.	
		Brought forward...	12,034	10	1	12,030	13	7	12,030	13	7	...	...	...	6	7	216	...	...	5625·53
157	1st	Reforming the Centre of Andiappa Gramany Road from West Madah Church to Munnarsawmy Covil Road	287	5	9	287	5	9	287	5	9	...	...	...	...	1	62	15	4	143·68
178	..	Do. Washermenpettah Esplanade Road from Mint Gate to Esplanade limit...	648	0	0	648	0	0	648	0	0	...	...	...	...	2	160	18	4	324·
185	...	Do. Ramanjyer Street, Washermenpettah from Gollawar Aggrarum Street to Tiruvatore High Road	487	3	2	487	3	2	487	3	2	...	...	...	...	3	...	12	4	243·60
186	...	Do. Sungeevyroyen Covil Street, Sungeevyroyenpettah, from Bauloo Moodelly Street to Jandrapilliar Covil Street	360	5	2	360	5	2	360	5	2	...	...	...	...	2	218	12	3	243·60
26	2nd	Do. Thieving Bazaar Esplanade Road from Eroosappah Maistry Street to Lamp-post near Nyneappah Naick Street...	472	8	0	472	8	0	472	8	0	...	...	...	...	...	200	30	4	180·
27	...	Do. the centre of Eroosappah Maistry Street from Jamadars Tanah to Thieving Bazaar Esplanade Road	864	4	6	864	4	6	864	4	6	...	...	...	...	1	167	30	4	329·25
41	...	Do. Rasapah Chetty Street from Wall Tax Road to Mint Street	748	2	0	748	2	0	748	2	0	...	...	...	...	1	100	28	4	285·
42	...	Do. Rasapah Chetty Street from Mint Street to China Bazaar Esplanade Road	458	5	2	458	5	2	458	5	2	..	...	...	...	1	57	20	4	174·60
47	...	Do. China Bazaar Esplanade Road from Lamp-post to General Hospital Gate Road	960	12	0	960	12	0	960	12	0	...	...	...	...	1	187	30	4	366·
69	...	Do. Mint Street from China Bazaar Street to Moola Saib Lane, Black Town..	775	10	3	775	10	3	775	10	3	...	...	...	...	3	98	20	4	439·30
76	...	Forming the centre of Andiapah Naick Lane from Wall Tax Road to Trevelyan Basin Street, East	184	10	4	184	10	4	184	10	4	...	..	...	...	1	60	12	4	94·60
77	...	Reforming the centre of Vurtha Moothiappen Street from Thatha Moothiappen Street to Ummen Covil Street	378	0	0	378	0	0	378	0	0	...	...	...	...	1	173	12	4	144·
78	...	Do. Mint Street from Theroopully Street to Ummen Covil Street	222	7	6	222	7	6	222	7	6	...	...	...	...	1	60	15	4	126·
79	...	Forming the centre Veerasawmy Pillay Street from Anacaraconan Street to Barrack Street	119	6	3	119	6	3	119	6	3	...	...	...	...	...	218	10	4	67·63
90	...	Reforming the centre of Kistnappa Naick Aggraram Street from Ummen Covil Street to Cooppoo Iyer Street	154	10	8	154	5	10	154	5	10	...	...	...	..	1	16	12	4	87·60
91	...	Do. Vencataramiar Street from Cooppoo Iyer Street to Peddoo Naick Street.	113	0	0	113	0	0	113	0	0	...	...	...	...	...	173	12	4	64·
92	...	Forming the Centre of Ummen Covil Street from Kistnappa Naicks Tank Street to Wall Tax Road	293	12	10	293	12	10	293	12	10	...	...	...	...	1	140	12	4	155·40
		Carried over...	19,563	1	8	19,559	0	4	19,559	0	4	...	...	...	10	5	105	...	...	9093·79

MAINTENANCE OF ROADS—(continued).

Statement of works completed during 1879, *from January to December.*—(continued.)

Estimate Number.	Division.	Name of Roads.	Amount of Estimate.			Amount of Bill.			Amount paid during the year.			Amount not paid.			Length.			Breadth.	Thickness.	Squares.
			Rs.	A.	P.	Rs.	A.	P.	Rs.	A.	P.	Rs.	A.	P.	M.	F.	Yds.	Ft.	In.	
1879		Brought forward ..	19,563	1	8	19,559	0	4	19,559	0	4	...	...	...	10	5	105	...	...	9,093·79
93	2nd	Forming the centre of Peddoo Naick Street. from Moodookistnan Street to Wall Tax Road	397	6	2	397	6	2	397	6	2	...	...	...	...	2	15	12	4	210·20
109	...	Reforming the centre of Mint Street from General Hospital Road to Isaack Street	148	5	0	148	5	0	148	5	0	...	...	...	...	...	186	15	4	84·
110	...	Do. Mint Street, from Isaack Street to China Bazaar Street	569	6	7	569	3	4	569	3	4	...	..	...	...	3	56	15	4	322·50
111	...	Do. Stringer's Street, from Wall Tax Road to Nyneappa Maistry Street...	90	0	9	90	0	9	90	0	9	...	...	...	...	..	150	10	4	51·
112	...	Do. Isaack Street, from Wall Tax Road to Mint Street	210	15	10	210	15	10	210	15	10	...	...	...	...	1	16	15	4	119·50
128	...	Forming the wing of Ramannen Street to Wall Tax Road, Black Town ...	50	12	6	50	12	6	50	12	6	...	...	...	...	...	43	20	4	26·
151	...	Do. the Cart Stand in Wall Tax Road	651	4	3	651	4	3	651	4	3	...	...	...	...	...	165	49	3	243·27
181	..	Reforming the centre of Elephant Gate Bridge Road, from the East approach of the Bridge to Wall Tax Road	214	6	8	211	7	2	211	7	2	...	..	...	...	...	190	20	4	102·50
184	...	Forming the centre of Vencataramier Street from Peddoo Naick Street to a lane on the north	39	3	1	39	3	1	39	3	1	...	...	...	...	...	74	10	4	22 ·20
187	...	Reforming the 2 approaches of the gates of the Central Railway Station, from General Hospital Road	82	8	11	82	8	11	82	8	11	...	...	...	...	...	33	58	3	60·50
6	3rd	Reforming the centre of Errabauloo Chetty Street, from Semboodoss Street to Beach Road	698	14	3	698	14	3	698	14	3	...	...	...	...	2	85	15	4	237·50
35	...	Forming Appoo Maistry Street from Parish Vencatachella Iyer Street to Fennelly Street	257	8	3	257	8	3	257	8	3	...	...	...	...	1	53	12	4	101·04
36	...	Reforming the centre of Chinnathamby Street, from Annapillay Street to Thathamoothiappen Street	234	0	0	234	0	0	234	0	0	...	..	...	...	1	132	12	4	117·
40	...	Do. Parramen Street, from Errabauloo Chettn Street to Moocra Nullamoothoo Street	129	9	7	129	0	7	129	9	7	...	...	...	...	...	176	12	4	64·80
45	...	Do, Popham's Broadway, from Errabauloo Chetty Street to China Bazaar Esplanade Road	507	0	0	507	0	0	507	0	0	...	...	..	...	1	155	28	2	338·
48	...	Do. Light House Esplanade Road, from China Bazaar Esplanade Road to Thieving Bazaar Esplanade Road	1,249	2	10	1,249	2	13	1,249	2	10	...	...	...	...	1	218	30	4	424·50
		Carried over...	25,093	10	4	25,086	6	3	25,086	6	3	...	...	..	12	1	92	...	...	11618 30

MAINTENANCE OF ROADS—(continued).

Statement of works completed during 1879 *from April to December.*—(continued.)

Estimate Number.	Division.	Name of Roads.	Amount of Estimate.			Amount of Bill.			Amount paid during the year.			Amount not paid.			Length.			Breadth.	Thickness.	Squares.
			Rs.	A.	P.	Rs.	A.	P.	Rs.	A.	P.	Rs.	A.	P.	M.	F.	Yds.	Ft.	In.	
		Brought forward...	25,093	10	4	25,086	6	3	25,086	6	3	...	...	...	12	1	92	...	...	11618·30
54	3rd	Reforming the centre of Venketasa Naick Street from Francis Turin Street to Ummen Pagoda Street	142	7	8	142	7	8	142	7	8	...	...	...	...	...	194	12	4	71·24
56	...	Do. Cundappa Chetty Street from Annapillay Street to Thathamoothiappen Street	225	9	7	225	9	7	225	9	7	...	...	.	...	1	77	12	4	112·80
63	...	Do. Benefield's Bridge Road from Benefield's Esplanade Road to Hospital Esplanade Road	388	7	0	388	7	0	388	7	0	...	...	...	...	1	...	20	4	132·
67	...	Raising and remetalling Moocra Nullamoottoo Street from Popham's Broadway to Singana Naick Street	262	6	1	262	6	1	262	6	1	...	...	...	...	2	10	15	4	67·50
72	...	Reforming the centre of Singana Naick Street from Moocra Nullamoothoo Street to Erabauloo Chetty Street...	150	9	6	150	9	6	150	9	6	...	...	...	...	...	191	12	4	69·84
73	...	Do. Oil Monger's Street from Moocra Nullamoothoo Street to Erabauloo Chetty Street...	154	3	5	153	12	11	153	12	11	...	...	...	...	...	162	12	4	71·52
80	...	Do. the centre of Venketasa Maistry Street from Mannady Street to Odakal Street	218	6	5	217	15	11	217	15	11	...	...	...	...	1	80	12	4	109·20
81	...	Do. Iyappen Street from Mannady Street to Odakal Street	218	6	5	218	6	5	218	6	5	...	...	...	...	1	80	12	4	109·20
89	...	Do. Malayperratamby Street from Parish Venketachella Iyer Street to Ummen Pagoda Street	118	6	5	118	6	5	118	6	5	...	...	...	...	...	161	12	4	59·20
94	...	Forming Shunmoogaroyen Street from St. Xavier Street to Ponniammen Covil Lane	242	9	7	242	9	7	242	9	7	...	...	...	...	2	13	8	4	121·30
95	...	Do. Meeralubbay Street from Parish Vencatachella Iyer Street to Ummen Pagoda Street	117	12	9	117	12	9	117	12	9	...	...	...	...	...	158	12	4	58·90
96	...	Do. Thyappa Moodelly Street from St. Xavier Street to Ponniammen Covil Lane	277	0	7	277	0	7	277	0	7	...	...	...	...	2	7	10	4	138·52
97	...	Do. the centre of Thyappa Moodelly Lane from Peddariar Covil Street to Shunmoogaroyen Street	71	10	10	71	10	10	71	10	10	...	...	...	...	...	97	12	4	35·84
98	...	Do. Ummen Pagoda Street from Popham's Broadway to Fennally Street ...	134	13	9	134	13	9	134	13	9	...	...	...	...	...	154	14	4	67·43
99	...	Reforming the centre of Malyappen Street from Mannady Street to Geils Street.	321	6	5	321	6	5	321	6	5	...	...	...	...	1	157	14	4	160·70
100	...	Do. Savareemoothoo Street from Mannady Street to Geil's Street	230	9	7	230	9	7	230	9	7	...	...	..	...	1	150	10	4	115·30
126	...	Do. the wings of Semboodoss Street, Pareanna Maistry Street, and Singana Naick Street connecting Moocra Nullamoothoo Street...	26	10	0	26	10	0	26	10	0	...	...	...	...	...	33	15	...	18·0
		Carried over...	28,395	2	4	28,387	1	3	28,387	1	3	...	...	...	14	5	56	...	...	13136·79

MAINTENANCE OF ROADS—(continued).

Statement of works completed during 1879, *from January to December.*—(continued.)

Estimate Number.	Division.	Name of Roads.	Amount of Estimate.			Amount of Bill.			Amount paid during the year.			Amount not paid.			Length.			Breadth.	Thickness.	Squares.
1879			Rs.	A.	P.	Rs.	A.	P.	Rs.	A.	P.	Rs.	A.	P.	M.	F.	Yds.	Ft.	In.	
		Brought forward...	28,395	2	4	28,387	1	3	28,387	1	3	...	...	...	14	5	56	...	...	13136·79
135	3rd	Reforming Mannady Street from Popham's Broadway to Jafferseerang Street ...	1,043	0	5	1,043	0	5	1,043	0	5	...	...	...	...	2	152	18	4	290·2
149	..	Do. Pareanna Maistry Street from Errabauloo Chetty Street to McLean Street	55	3	2	55	3	2	55	3	2	...	...	...	...	...	73	12	...	27·60
153	...	Do. the centre of Davidson's Street, from Thathamoothiappen Street to Annapillay Street	305	9	7	305	9	7	305	9	7	...	...	...	...	1	100	15	4	152·80
155	...	Do. Annapillay Street, from Popham's Broadway to Acharappen Street ...	697	4	2	697	4	2	697	4	2	..	...	...	...	1	113	20	4	198·80
158	...	Do. Soonkoorama Chetty Street, from China Bazaar Road to Philip's Street	152	12	9	152	12	9	152	12	9	...	...	...	..	...	177	12	4	76·40
159	...	Do. Gomes' Street, Black Town, from Popham's Broadway to Condey Chetty Street	120	10	3	120	10	3	120	10	3	...	...	...	...	...	165	12	4	60·32
160	...	Do. Philip's Street, from Popham's Broadway to Condy Chetty Street ...	122	6	5	122	6	5	122	6	5	...	...	...	...	...	160	12	4	61·20
161	...	Do. Condey Chetty Street, from China Bazaar Esplanade Road to Philip's Street	180	0	0	180	0	0	180	0	0	...	...	...	...	...	190	12	4	90·
162	...	Do. the centre of Francis Joseph Street, from China Bazaar Road to Philip's Street	177	12	9	177	12	9	177	12	9	...	...	...	...	...	163	12	4	88·90
165	...	Do. Band Beach Road, from Fort Beach Road to Victoria's Bridge ...	1,665	0	0	1,665	0	0	1,665	0	0	...	..	...	...	3	152	40	4	332·50
166	...	Do. Benefield's Esplanade Road, from Thieving Bazaar Esplanade Road to Hospital Esplanade Road	979	7	3	979	7	3	979	7	3	...	..	...	...	4	20	20	4	270·0 135·0
168	...	Do. Jaffer Seerang lane, from Jaffer Seerang Street to North Beach Road...	236	11	3	236	11	3	236	11	3	...	...	...	...	...	134	15	4	64·75
169	...	Do. Jaffer Seerang Street, from Naranappa Naik Street to Kistnasawmy Covil Street	405	6	3	405	6	3	405	6	3	...	...	...	...	...	196	20	4	118·50
177	...	Do. the wings of Sengalanecrpillayar Covil Street, Ramasawmy Street, Coral Merchant Street, Armenian Street, and Jones' Street	88	12	9	88	12	9	88	12	9	...	...	...	...	...	76	19	4	44·40
180	...	Do. the centre of Ramasawmy Street, from Mannady Street to Salvinayagar Covil Street	424	12	9	424	12	9	424	12	9	...	...	...	...	2	146	12	4	212·40
20	4th	Do. the approaches to the two gates of the Railway Salt Cottar from Elephant Gate Road to the Gates of 4th Division	141	5	8	141	5	8	141	5	8	...	...	...	...	...	69	17	6	35·90
43	...	Do. the centre of Yerookanjary Road from the Basin Road to the Expense Magazine Road, 4th Division	1,193	4	0	999	12	0	999	12	0	...	...	...	...	5	4	20	4	688·
44	..	Do. Yarookanjary Road from the Expense Magazine Road to the Toll Gate, 4th Division	1,054	8	0	883	8	0	883	8	0	...	...	...	...	4	133	20	4	603·
		Carried forward...	37,488	7	9	37,166	8	8	37,166	8	8	...	...	...	18	5	79	...	...	17192·28

MAINTENANCE OF ROADS—(continued).

Statement of works completed during 1879 *from April to December*—(continued.)

Estimate Number.	Division.	Name of Roads.	Amount of Estimate.			Amount of Bill.			Amount paid during the year.			Amount not paid.			Length.			Breadth.	Thickness.	Squares.
			Rs.	A.	P.	Rs.	A.	P.	Rs.	A.	P.	Rs.	A.	P.	M.	F.	Yds.	Ft.	In.	
		Brought forward...	37,438	7	9	37,166	8	8	37,166	8	8	...	...	...	18	5	79	...	...	17192·28
70	4th	Reforming D'Mellow's Road from the Elephant Gate Road to the Culvert, 4th Division	197	11	6	197	11	6	197	11	6	...	...	...	..	...	190	20	4	114·
71	...	Do. D'Mellow's Road from the Culvert to Genl. Farren's Road, 4th Division	988	9	6	988	9	6	988	9	6	...	...	...	...	5	166	15	4	570·
82	...	Do. the centre of Cook's Road from Strahan's Bridge to Strahan's Road, 4th Division	783	1	1	783	1	1	783	1	1	...	...	...	...	4	6	15	4	451·50
83	...	Do. Under Bridge Road leading from North to South approaches of the Railway crossing on Gantz's Road, 4th Division	109	4	3	109	4	3	109	4	3	...	...	...	...	...	210	10	4	63·
84	...	Do. Venketasa Chetty Road from Gantz's Road to the Gate of Mr. Pharoah's Bungalow	374	10	0	374	10	0	374	10	0	...	...	...	...	2	160	12	4	216·
118	...	Do. Pooliamtope Road from the Basin Road to the Bridge, 4th Division ...	176	14	6	176	14	6	176	14	6	...	...	..	...	1	7	15	4	102·
119	...	Do. Moothoo Moodelly Street from Moorthing Iyer Street to Yarookanjary Road	160	4	1	160	4	1	160	4	1	...	...	...	...	1	36	12	4	92·40
120	...	Do. the centre of Connoor Road from Strahan's Bridge to the Toll Gate, 4th Division	718	0	6	718	0	6	718	0	6	...	...	...	...	4	40	15	4	414·
121	..	Do. Barracks Gate Street from D'Mellow's Road to Strahan's Road, 4th Division	143	1	4	143	1	4	143	1	4	...	...	...	...	1	64	15	4	82·50
170	...	Do. Perambore High Road from Cook's Road to the Toll Gate, 4th Division..	1,051	0	6	1,051	0	6	1,051	0	6	...	...	...	...	5	66	17	4	606·
179	...	Do. Mathawurthoo Road from Perambore High Road to the Toll Gate, 4th Division	744	0	9	744	0	9	744	0	9	...	...	...	...	4	73	15	4	429·
13	5th	Do. the centre of Vepery Church Road from Jeremiah's Road to Rundall's Road	308	11	6	307	4	6	307	14	6	...	...	...	...	2	10	15	4	178·
14	...	Do. 1st Salay Street from Vepery High Road to General Collin's Road ...	238	2	10	231	8	6	231	8	6	...	...	...	...	1	40	15	4	126·50
15	...	Do. Cattoor Sadayappen Street from Narrayanna Chetty Street to McFarlan's Road	111	0	0	111	0	0	111	0	0	...	...	...	...	...	194	11	4	64·
16	...	Do. Breithaupt's Road from Rundall's Road to Atkinson's Road	153	10	8	152	11	8	152	11	8	...	...	...	...	...	147	15	4	86·90
17	...	Do. Atkinson's Road from Gun Carriage Road to Vepery High Road... ...	345	8	10	340	12	8	340	12	8	...	...	...	...	2	193	12	4	172·50
18	...	Do. Careyappah Moodelly Street from Perambore Barracks Road to Cundappah Moodelly High Road	289	8	10	289	6	10	289	6	10	...	...	...	...	2	2	12	4	166·95
		Carried forward...	44,331	10	5	44.096	8	10	44,046	8	10	...	...	...	23	6	143	...	...	21127·53

MAINTENANCE OF ROADS—(continued).

Statement of works completed during 1878 *from April to December.*—(continued.)

Estimate Number.	Division.	Name of Roads.	Amount of Estimate.			Amount of Bill.			Amount paid during the year.			Amount not paid.			Length.			Breadth.	Thickness.	Squares.
1878			Rs.	A.	P.	Rs.	A.	P.	Rs.	A.	P.	Rs.	A.	P.	M.	F.	Yds.	F.	In.	
		Brought forward...	44,331	10	5	44,046	8	10	44,046	8	10	...	...	...	23	6	143	..	...	21127·53
24	5th	Reforming the centre of Vencatamah Samady Street, from Cundappah Moodelly High Road to Brick Kiln Road	369	9	9	369	9	9	369	9	9	...			...	4	10	15	4	197·40
25	...	Do. Padavathammen Covil Street and north portion of Chellappa Moodelly Street joining Strahan's Road	656	15	10	656	15	10	656	15	10	...	...	...	...	3	191	12	4	324·75
28	...	Do. Hall's Road, from Egmore High Road to Mr. DeCloset's Gate	349	3	8	339	5	5	339	5	5	...	...	...	...	1	23	15	5	156·
31	...	Do. Sathana Naik, from DeMellow's Road to Angalammen Covil Gate ...	396	7	8	395	8	8	395	8	8	...	...	...	...	2	138	12	4	228·60
58	...	Do. Neelacholady Street, from Cundappa Moodelly Street to Rottigidangoo Thiroovengada Moodelly Street	41	10	0	38	13	9	38	13	9	...	...	...	...	...	53	13	4	21·75
59	...	Do. Condapah Moodelly Street, from Vencatachella Moodelly Street to Neelacholady Street	72	13	6	72	13	6	72	13	6	...	...	...	...	...	127	15	3	57·
60	..	Do. the centre of Vencatachella Moodelly Street, from Choolay Bazaar Road to Condappa Moodelly Street	247	2	4	245	9	4	245	9	4	...	...	...	...	1	93	15	4	141·60
68	..	Do. Choolay Bazaar Road, from Sydenham's Road to Hunter's Road and Avadanam Paupiah's Road	730	7	6	730	7	6	730	7	6	...	...	...	...	2	177	15	4	275.
74	..	Metalling the footpaths in People's Park	737	5	5	737	5	5	737	5	5	...	...	...	1	6	105	6	2	637·70
75	...	Reforming the centre of Whannell's Road, from Poonamallee Road to Pantheoen Road	1,205	2	3	1,204	4	11	1,204	4	11	...	...	...	...	2	120	25	4&3	367·
101	...	Do. Narayana Chetty Street, from Poonamallee Road to Eroosappen Street	115	5	4	115	2	7	115	2	7	...	...	...	...	...	136	15	4	66·40
102	...	Do. Veerasawmy Pillay Street, from Poonamallee Road to Eroosappa Street	127	7	8	126	15	8	126	15	8	...	...	...	...	...	143	15	4	73·50
103	...	Do. the centre of McFarlane's Road, from Sawmy Moodelly Street to Woothoocattan Street	89	13	0	89	13	0	89	13	0	...	...	...	...	...	116	13	4	45·
104	...	Do. Eroosappen Street, from Pareanna Maistry Street to Carpoora Moodelly Street	57	3	9	57	3	9	57	3	9	...	...	.	..	...	73	15	4	33·
105	...	Do. Sawmy Moodelly Street, from Vepery High Road to McFarlane's Street	90	3	0	89	12	6	89	12	6	...	.	...	...	.	140	12	4	52·
116	...	Do. the Road on the north side of Wild Animals' enclosure joining North Gate Road and the Farm House Road	60	11	3	60	11	3	60	11	3	...	...	...	...	...	73	15	4	35·
117	...	Do. the Road from South-west Gate to Vepery High Road	268	13	3	268	12	3	268	12	3	...	...	...	...	1	25	20	4	155·10
		Total...	49,948	1	7	49,645	13	11	49,645	13	11	...	...	...	28	4	126	...	...	24994·33

MAINTENANCE OF ROADS—(continued).

Statement of works completed during 1879 *from January to December.*—(continued).

Estimate Number.	Division.	Name of Roads.	Amount of Estimate			Amount of Bill.			Amount paid during the year.			Amount not paid.			Length.			Breadth.	Thickness	Square.
1879			Rs.	A.	P.	Rs.	A.	P	Rs.	A.	P.	Rs.	A.	P.	M.	F.	Yds.	Ft.	In.	
		Brought forward...	49,948	1	7	49,645	13	11	49,645	13	11	...	...	...	28	4	126	...	...	24994·33
142	5th	Reforming the centre of Case Major's Road from Pantheon Road to Gengoo Reddy Road	840	4	10	583	4	4	583	4	4	...	...	...	...	3	36	15	4	336·30
143	...	Do. Monteeth Road from Marshall Road to Pantheon	541	4	9	541	4	9	541	4	9	...	...	...	...	2	208	15	4	312·15
145	...	Do. the centre of Barracks Road East, from Stringer's Road to Vepery High Road	294	13	6	294	13	6	294	13	6	...	...	...	...	1	140	15	4	170·
146	...	Do. Muthoocara Veerabuden Street from Naval Hospital Road to Pereanna Maistry Street	157	13	3	157	7	8	157	7	8	...	...	...	...	...	188	15	4	90·80
147	...	Forming Ramasawmy Pillay Street from Venetheertha Moodelly Street to Sarvanaperoomal Moodelly Street	107	13	6	107	5	1	107	5	1	...	...	...	...	...	135	11	4	48·35
148	...	Do. Andiappa Moodelly Street from Saravanaperoomall Moodelly Street to Pattalam Ponniammen Covil	61	9	0	61	9	0	61	9	0	...	...	...	...	...	83	12	4	30·
152	...	Reforming Sarvanaperoomall Street from Ramasawmy Pillay Street to Andiappa Moodelly Street	290	1	6	289	11	1	289	11	1	...	...	...	...	1	90	12	4	117·20
163	...	Do. West river side Road from Pantheon Road to Railway wall	542	13	9	542	13	9	542	13	9	...	...	...	...	1	188	20	4	314·
201	...	Do. the centre of and sides of Poonamally Road from Rundall's Road to Flower's Road	902	13	10	902	13	10	902	13	10	...	...	...	...	7	70	15	2 & 3	636·50
189	...	Forming the centre of Veerasawmy Pillay Street from Egmore High Road to Police Office Road	360	14	5	360	14	5	...	...	...	360	14	5	...	1	28	12	4	118·80
5	6th	Reforming the centre of Puttaless Road from Mount Road to White's Road ...	417	9	6	417	9	6	417	9	6	...	...	...	...	2	96	15	3	241·50
19	...	Do. Kilpaukum Garden Road from Orme's Road to Ummen Covil Road ...	604	11	0	564	5	6	564	5	6	...	...	...	...	2	120	15	4	252·
37	...	Do. the centre and sides of Mount Road from Pattaless Road to White's Road	3,183	12	0	3,162	11	3	3,162	11	3	...	...	...	...	4	63	20	5/4	1132·
38	...	Do. Mount Road from White's Road to Peter's Road	1,170	0	0	1,170	0	0	1,170	0	0	...	...	...	...	1	127	20	5/4	416·
39	...	Do. Mount Road from Peter's Road to Nungumbakum High Road	1,535	10	0	1,535	10	0	1,535	10	0	...	...	...	...	2	15	20	5/4	546.
		Metalling the Road leading from Sterling Road Toll Gate to Rubbish Depot in 6th Division	...	...	...	103	5	7	103	5	7	...	...	...	...	2	20	7	...	88.40
55	...	Reforming the centre of Madavaukum Tank Road from Porasavakum High Road to Lunatic Hospital Gate	711	2	0	686	2	0	686	2	0	...	...	...	...	3	160	12	4	295·20
113	...	Do. Balfore's Road from Harley's Road to Porasavaukum High Road ...	278	13	3	278	13	3	278	13	3	...	...	...	...	1	56	15	4	124·50
114	...	Do. Kelley's Road from Balfore's Road to Orme's Road	440	6	7	440	6	0	440	6	0	...	...	...	...	2	93	12	...	192·
		Carried forward...	62,390	8	3	61,846	14	5	61,486	0	0	360	14	5	35	...	62	...	...	30456·03

MAINTENANCE OF ROADS—(continued).

Statement of work completed during 1879, *from January to December*—(continued.)

Estimate Number.	Division.	Name of Roads.	Amount of Estimate.			Amount of Bill.			Amount paid during the year.			Amount not paid.			Length.			Breadth.	Thickness.	Squares.
1879			Rs.	A.	P.	Rs.	A.	P.	Rs.	A	P.	Rs.	A.	P.	M.	F.	Yds.	Ft.	In.	
		Brought forward...	62,390	8	3	61,846	14	5	61,486	0	0	360	14	5	35	0	62	...	...	30456.03
115	6th	Reforming Wood's Road from Mount Road to General Pater's Road	401	1	0	401	1	0	401	1	0	...	..	...	...	1	69	15	4	139·50
139	...	Do. the centre of Anderson's Road, from Mr. Carter's Gate to More's Road.	161	4	0	161	4	0	161	4	0	...	...	..	...	...	160	15	4	72·
154	...	Do. Old Lunatic Hospital Road from Orme's Road to Purasavaukum High Road	532	2	0	486	7	0	486	7	0	...	..	...	...	2	163	12	4	217·20
200	...	Do. the centre and sides of Poonamallee Road from Flower's Road to limits.	1,840	0	2	1,840	0	2	1,840	0	2	...	..	..	1	3	13	15	2	1095·
1	7th	Do. the centre of Mount Esplanade, from Wallajah Bridge to Government Bridge	3,019	2	11	3,019	2	11	3,019	2	11	...	...	..	...	5	13	30	4	1050·15
10	...	Do. Body Guard Road, from Mount Esplanade Road to Wallajah Road ...	1,007	13	0	1,007	13	0	1,007	13	0	...	...	...	...	2	160	25	4	450·
11	...	Do. Wood's Road, from General Pater's Road to Pycroft's Road	452	6	4	452	6	4	452	6	4	...	...	...	...	1	116	20	4	202·
12	...	Do. Aroonachella Auchary Street, from Tiroovattisvaran Pettah Road to Wallajah Road	227	1	6	227	1	6	227	1	6	...	...	..	...	1	62	12	4	101·40
32	..	Do. Chella Pillayar Covil Street, from Pycroft's Road to Pillayar Covil Street	217	10	6	216	15	6	216	15	6	...	...	...	...	1	67	12	3	103·44
49	..	Do. the path between the Main Road to the gate of St. Patrick's Cemetery	40	5	5	40	5	5	40	5	5	...	..	...	...	..	42	6	3	21·57
61	...	Do. Waller's Road from Dam Road to Mount Road at Narasingapooram ...	462	12	11	462	12	11	462	12	11	...	...	...	...	1	146	15	4	206· 6
86	...	Do. the centre of Triplicane High Road from Pycroft's Road to Ice House Road	998	3	0	984	6	0	984	6	0	...	..	...	...	3	80	15	4	347·20
87	...	Do. Triplicane High Road, from Wallajah Road to Pycroft's Road	1,418	13	0	1,418	13	0	1,418	13	0	...	...	...	...	4	83	15	4	493·50
88	...	Do. Wallajah Road, from Mount Road to Triplicane High Road	811	0	6	746	1	0	746	1	0	...	..	...	...	5	120	20	4	259·50
125	...	Do. South Beach Road, from Ice House Road to Pycroft's Road	1,245	3	4	1,245	3	4	1,245	3	4	...	..	..	...	4	46	20	4	556·
172	...	Do. Pillayar Covil Street, from Chellapillayar Covil Street to Sooboodral Street...	322	8	0	322	8	0	322	8	0	..	...	...	...	1	180	12	4	144·
173	...	Do. Sooboodral Street, from Pillayar Covil Street to Triplicane High Road.	180	1	0	180	1	0	180	1	0	...	..	...	...	1	3	12	4	80·40
182	...	Do. Blacker's Road, from Harris' Bridge to Mount Road	412	15	5	412	15	5	412	15	5	...	...	...	...	1	16	15	5	120·50
190	...	Do. General Pater's Road, from Wood's Road to Mount Road	823	8	3	823	8	3	823	8	3	...	...	...	..	3	15	20	3	405·
29	8th	Do. Barber's Bridge Road, from Edward Elliot's Road to Barber's Bridge.	353	10	0	353	10	0	353	10	0	...	...	..	...	...	205	20	4	123·
30	...	Do. Barber's Bridge Road, from Ice House Road to Edward Elliot's Road.	1,972	4	0	1,972	4	0	1,972	4	0	...	...	...	...	5	43	20	3	686·
33	...	Do. DeSilva's Road from Luz Church Road to DeSilva's Garden	146	4	11	146	4	11	146	4	11	...	...	...	...	...	208	12	3	78·25
34	...	Do. Pareapully Street from St. Thome High Road to St. Lazarus's Church.	100	15	6	100	15	6	100	15	6	...	..	...	...	...	150	12	3	54·
50	...	Do. centre and sides of Mount Road from St. George's Cathedral Road to Blacker's Gate	2,362	8	0	2,362	8	0	2,362	8	0	...	...	...	...	3	40	20	5	840·
		Carried forward...	81,900	2	11	81,183	11	11	80,822	1	6	360	14	5	43	6	20	...	...	38431·19

MAINTENANCE OF ROADS.—concluded.

Statement of works completed during 1879 *from January to December*—concluded.

Estimate Number.	Division.	Name of Roads.	Amount of Estimate.			Amount of Bill.			Amount paid during the year.			Amount not paid			Length.			Breadth.	Thickness.	Squares.
1878			Rs.	A.	P.	Rs.	A.	P.	Rs.	A.	P.	Rs.	A.	P.	M.	F	Yds.	F.	In.	
		Brought forward...	81,900	2	11	81,133	11	11	80,822	13	6	360	14	5	43	6	20	...	...	38431·19
51	8th	Reforming the centre and sides of Mount Road from Blacker's Gate to Yeldam's Road	3,150	0	0	3,149	11	9	3,149	11	9	...	..	...	...	1	107	20	5	1,120.
52	...	Do. the centre and sides of Mount Road, from Yeldam's Road to Cenotaph Road	1,968	12	0	1,968	12	0	1,968	12	0	...	...	...	...	5	66	20	4 & 5	700·
53	...	Do. do. Mount Road, from Cenotaph Road to Municipal Limit	1,856	4	0	1,856	4	0	1,856	4	0	...	...	...	..	5	...	20	4 & 5	660·
62	...	Do. the road opposite to the Church Gate at St. Thomé and constructing a covered drain from Church Gate and joining with the side drain at St. Thomé	110	0	0	106	2	0	106	2	0	...	...	...	...	...	17	55	2	27·50
122	...	Do. the centre of Bazaar Road from Nattoo Soobroya Moodelly Street to Cutchery Road	638	13	3	638	13	3	638	13	3	...	...	...	...	2	151	15	4	276·25
123	...	Do. Prusunnavenayagar Covil Street, from Barber's Bridge to Nattoo Soobroya Moodelly Street...	284	7	0	284	7	0	284	7	0	...	...	...	...	1	53	15	4	123·
124	...	Do. the centre of Chamier's Road, from Pugh's Road to Cenotaph Road, Mylapore	832	8	0	832	8	0	832	8	0	...	...	...	..	3	140	15	4	360·
140	...	Forming the Centre of Muddala Narayana Street, from Cutcherry Road to the joining of East and North Madah Street	193	0	9	193	0	9	193	0	9	...	...	...	...	...	110	15	3 & 4	52·50
174	...	Reforming the centre of St. Thomé High Road, from Colonel Underwood's Gate to Adyar Bridge Road	745	12	6	603	0	2	603	0	2	...	...	...	...	3	56	15	3	322·50
175	...	Do. St. Thomé High Road, from Anthoo Street to Colonel Underwood's Gate	1,977	3	0	1,598	10	9	1,598	10	9	...	...	...	1	...	140	15	3	855·
		Total...	93,656	13	5	92,415	1	7	92,054	3	2	360	14	5	47	5	200	..	...	42927·94

PUBLIC WORKS AND CONSERVANCY DEPARTMENTS.

TABLE No. 14.

Statement shewing the cost of labour and materials used for repairing Liability Roads.

Division.	Ward.	Materials.	No. of Carts.	Rate. RS.	Rate. A.	Rate. P.	Amount. RS.	Amount. A.	Amount. P.	Cost of Labour. RS.	Cost of Labour. A.	Cost of Labour. P.	Total. RS.	Total. A.	Total. P.
1	West.	Granite ...	21	0	8	6	11	2	6						
		Gravel ...	4	0	6	6	1	10	0	1	7	0	24	1	6
		Laterite ...	22	0	6	6	8	15	0						
		Clay ..	7½	0	2	0	0	15	0						
4	Moiety of cost for repairing Yerkenchery Road							...		...	...	...	364	8	0
5	Centre	Granite ...	6	0	8	6	3	3	0	...	...	...	4	13	0
		Laterite ...	4	0	6	6	1	10	0						
7	Centre	Laterite ...	44	0	6	6	17	14	0	2	2	6			
		Clay ...	8	0	2	0	1	0	0						
	South.	Granite ...	15	0	8	6	7	15	6	4	5	0	62	2	0
		Laterite ...	66	0	6	6	26	13	0						
		Clay ...	16	0	2	0	2	0	0						
8	North.	Laterite ...	32	0	6	6	13	0	0	15	7	3	116	13	8
	South.	Laterite ...	166	0	6	6	67	7	0	20	15	5			
										Grand Total...			572	6	2

These amounts afterwards recovered from the several Contractors.

TABLE No. 15.

Table showing materials used in each Division for repairing Roads not under liability.

Division.	Materials.	No. of Carts.	Rate. RS.	Rate. A.	Rate. P.	Amount. RS.	Amount. A.	Amount. P.	Total. RS.	Total. A.	Total. P.
1st	Granite ...	772½	0	8	6	410	6	3			
	Laterite ...	3,176	0	6	6	1,290	4	0			
	Clay ...	890⅜	0	2	0	111	4	9			
	Gravel ...	2	0	6	0	0	13	0	1,812	12	0
2nd	Granite ...	588	0	8	6	312	6	0			
	Laterite ...	2,862	0	6	6	1,162	11	0			
	Caly ...	792¼	0	2	0	99	0	6			
	Gravel ...	38	0	6	6	15	7	0	1,589	8	6
3rd	Granite ...	1,132	0	8	6	601	6	0			
	Laterite ..	3090	0	6	6	1,255	5	0			
	Clay ...	1,0[illegible]4½	0	2	0	125	9	0	1,982	4	0
4th	Granite ..	180	0	8	6	95	10	0			
	Laterite ...	546	0	6	6	221	13	0			
	Clay ...	196½	0	2	0	24	9	0	342	0	0
5th	Granite ...	406½	0	8	6	215	15	3			
	Laterite ...	3,626	0	6	6	1,473	1	0			
	Clay ...	389½	0	2	0	48	11	0			
	Gravel ...	50	0	6	6	20	5	0	1,758	0	3
6th	Granite ...	211½	0	8	6	112	5	9			
	Laterite ...	2,224	0	6	6	903	8	0			
	Clay ...	301	0	2	0	37	10	0			
	Gravel ...	4	0	6	6	1	10	0	1,055	1	9
7th	Granite ...	1,972½	0	8	6	1,047	14	3			
	Laterite ...	3,648	0	6	6	1,482	0	0			
	Clay ...	1,074	0	2	0	134	4	0	2,664	2	3
8th	Granite ...	1,084½	0	8	6	576	2	3			
	Laterite ...	3,848	0	6	6	1,563	4	0			
	Gravel ...	18	0	6	6	7	5	0	2,146	11	3
						Total Rupees ...			13,350	8	0

APPENDIX IV.

PUBLIC WORKS AND CONSERVANCY DEPARTMENTS.

TABLE No. 16.

MAINTENANCE OF DRAINS.

Table showing the Drains that were repaired.

	Estimated Amount.			Amount Paid.		
	RS.	A.	P.	RS.	A.	P.
Repairing a portion of side drain in Casavyer Street, &c.	25	10	0	25	10	0
Erecting a cess pool with water course in Nyneappa Maistry joining Arrack Godown Street	27	14	0	26	9	11
Altering the covered drain in Pilliar Covil Street near the Public well	28	14	0	28	6	1
Repairing the side drain of Buthery Veerasawmyally Street in Peddoo Naikpettah...	14	2	3	14	2	3
Erecting 3 stink traps in Davidson's Street ...	84	12	0	84	12	0
Constructing a cesspool in Errabauloo Chetty Street joining Popham's Broadway...	13	14	1	13	14	1
Repairing the side drains and cross Tunnels in Anoomuntharoyen Covil Street, and Vencatarungapillay Street ...	313	3	11	313	3	11
do side drains in Aroonachella Pillay lane in Sydenham's Road	66	0	0	66	0	0
do side drain in Meeran Saib Street, Narasingapooram	41	3	4	41	3	4
Constructing a stink trap at East Madah Church Road, Royapooram	14	11	3	14	11	3
do 2 stink traps in Gomes' Street joining Popham's Broadway near the Times Office...	17	0	0	16	15	2
do cross drain and altering the levels of the bed of drain in Jandrapilliar covil, Sathany Narayanen Parra Baloo Chetty and Sungeeviroyen Covil Street.	402	0	0	392	2	8
do a cross drain in Jones' Street, Black Town	12	0	0	12	0	0
Repairing side and cross drains in Popham's Broadway joining Moocra Nullamoothoo Chetty Street	40	0	0	35	8	3
do side drain in Ponnappa Chetty Street, Triplicane	139	0	0	138	9	6
Covering side drain with Blue stones in Vencatasa Gramany Street Chintadrepettah.	81	10	1	81	10	1
Constructing side drain in Areemoothoo Maistry Street, Triplicane	54	14	0	38	15	2
do a wall and door way on the two ends of Anoomuntha Row lane in Bungaroo Naik Street	25	10	6	25	10	6
Alteration to side drains in Semboodoss Street...	156	0	0	...	...	...
Removing the old arches and rebuilding the same of the Main Drain, Triplicane ...	517	10	0	490	13	3
Repairing the floor of the main drain at Mount Road	285	0	0	285	0	0
do the side drain in Waller's Road, Narasingapooram	103	7	0	103	7	0
do the side drain in Agrarum Street, Chintradrepettah	22	15	0	22	15	0
do the side walls of the drain in Carneeswarer Covil Road	110	0	0	109	9	2
do the parapet walls of the two culverts over the side ditches in Cooty Parchery, Nungumbaukum	20	10	0	...	...	...
do the cross Tunnels at the entrance of Letang's Road	35	0	0	...	...	...

PUBLIC WORKS AND CONSERVANCY DEPARTMENTS.

TABLE No. 16.

MAINTENANCE OF DRAINS.

Table showing the Drains that were repaired.—continued.

	Estimated Amount.			Amount Paid.		
	RS.	A.	P.	RS.	A.	P.
Constructing 2 cess pits and covering the same with sewer grate with bell and an under ground drain at the West end of Arbuthnot's lane joining Jafferserang's Street	63	0	0	...	...	...
Raising walls of the side drain in Popham's Broadway	71	0	0	...	...	...
Petty Repairs, &c.	906	5	2	435	5	0
Total...	3,693	6	1	2,817	1	6

TABLE No. 17.

MAINTENANCE OF FENCES.

	RS.	A.	P.
Supplying new materials for 38 spaces now without railings at the side of Cooum River Road, from Dam Road to St. Andrew's Bridge	130	11	6
Repairing old Palmyrah Railings at the side of Cooum River Road, from Dam Road to Napier Park, Western Gate Chintadrepettah	51	6	0
do The Teakwood railings on the East and West of Wallajah Bridge	376	0	0
do The Palmyrah Fences at Spur Tank Road... ...	235	13	6
do Fence in River side Road, between Colonel Law's Bridge, and Harris' Bridge	25	5	8
do Cooum Fence, near St. Andrew's Bridge	3	1	6
do Cooum Fences, near Harris' Bridge	5	9	2
do The fencing of the Municipal Cart Stand, in Stephenson's Road...	247	10	3
do A portion of the Fencing of the Municipal Cart Stand in Stephenson's Road	53	13	6
do The retaining Wall of Karayancootta in Sydenham's Road.	54	13	0
do Wooden Railings of the Railway crossings, Perambore High Road	14	13	0
do do do Gantz Road	81	15	4
do do do Yerookencherry	22	13	4
do Parapet wall from College Bridge, to Elphinstone Hotel.	108	4	0
do and plastering the parapet wall, along Dam Road, from Harris' Bridge to Mount Road	202	14	0
Erecting Palmyrah fence at the end of the culvert in Harrington's Road...	9	8	0
Repairing Wooden Railings of the Railway crossing in Perambore High Road	2	8	0
do do do Yerookencherry Road ...	2	2	0
do do do do.	4	0	0
do do do Perambore High Road ...	6	0	0
Total...	1,639	1	9

TABLE No. 18.

MAINTENANCE OF TANKS AND WELLS.

	RS.	A.	P.
Deepening the Tank of C. V. Cunniah Chettyar in Stephenson's Road and throwing the earth over the street from Perambore High Road, to Chuckly Pauliam	262	3	6
Repairing the parapet wall of a public well in Trevelyan Cart Depot	6	6	8
Clearing vegetation on banks of tanks in Rundall's Road ...	7	3	0
Repairing Public Well in Namasivaya Chetty Street	10	0	0
Do do do do Lane ...	10	0	0
Sinking Well at Pattalam Ponneammen Covil Street	10	0	0
Total...	305	13	2

TABLE No. 19.

Statement showing the number of Markets, Depôts, Dangerous and offensive Trades Licensed and amount received during 1879.

Sections.	No.	Description.	Amount.			Total.		
350			RS.	A.	P.	RS.	A.	P.
B. L.	30	Markets	1,825	0	0			
B. L.	17	Meat Stalls.	17	0	0			
325	12	Salt fish Bazaars	12	0	0			
325	881	Hack Stables	540	0	0			
322	10	Cattle Yards	42	0	0			
322	27	Chunam Kilns	540	0	0			
322	26	Indigo Dyeing Yards	192	0	0			
322	7	Tanneries	525	0	0			
322	118	Oil boiling Houses ... }	1,145	0	0			
333	111	Oil Mills .. }						
325	1	Slaughter House	100	0	0			
323	2	Sheep Pens	42	0	0			
328	3	Blood and Bone Depôts	200	0	0			
328	242	Firewood and Brushwood Depôts ...	891	0	0			
328	31	Palmyrah Depôts	21	0	0			
328	41	Redwood do	156	0	0			
328	101	Timber do	832	0	0			
328	21	Charcoal do	132	0	0			
328	1	Straw do	3	0	0			
325	15	Carts Stands	343	0	0			
322	24	Brick Kilns	268	14	2			
328	8	Bamboo Depôts	30	0	0			
322	1	Cement Works	100	0	0			
322	15	Manufacturing fireworks.. ...	15	0	0			
322	10	Storing Kerosine Oil	250	0	0			
322	9	Camphor Boiling Houses... ...	45	0	0			
322	2	Storing Lucifer Matches... ...	50	0	0			
322	2	Storing Skins	100	0	0			
322	60	Pottery Kilns	153	0	0			
350	13	Beef Stalls	13	0	0			
311	1	Latrine for Market	3	0	0			
282		Hoards and fences	57	15	1			
					Total...	8,643	13	3

PUBLIC WORKS AND CONSERVANCY DEPARTMENTS.

TABLE No. 20.

Statement showing the particulars of the lands sold during the year 1879.

Extent of Land.	Locality.	Names of Purchasers.	Purchase Amount.		
sq. ft.			Rs.	A.	P.
273	Sawmy Ummen Covil Street	T. Casava Moodelly	12	0	0
16	D'Mellow's Road	A. C. Ponnoosawmy Moodelly	8	0	0
297	Davaraga Moodelly Street	C. Soobrayaloo Iyah	90	0	0
125	Narrainsawmy Moodelly Street ...	G. Gopaul Chetty	21	0	0
229½	Oyaloo Moothia Moodelly Street ...	N. C. Mooroogoo Soobraya Moodelly ...	29	0	0
16	Washermanpet Burial	C. Rajaruthna Moodelly	8	0	0
232½	Thumboo Chetty Street	Chunoo Canapa Chetty	59	0	0
132	Munnarsawmy Covil Street	Narayanasawmy Chetty	11	0	0
106½	Narayana Moodelly Street	Goorooapa Chetty	18	0	0
	Triplicane	J. Lutchmacanth Raw	40	8	0
155½	Mootheappen Street	Theroovangadathan Chetty	65	0	0
266	Govindapa Naick Street	C. Cundapa Chetty	89	0	0
16	Burial Ground Basin Road	Coomara Chetty	8	0	0
	Poonamallee Road	W. T. Hamilton Holmes, Esq.	962	0	1
851½	....	Deputy Collector, Madras	134	13	0
68½	Thathamoothiappen Street	China Lutchmana Chetty	65	0	0
397½	Vurthamoothiappen Street	T. Varatharajooloo Chetty	198	14	0
396	Do. do.	C. Thiroovangadathan Chetty	198	0	4
156½	Govindapah Naick Street	Numbaroomal Chetty	52	3	0
51	Nattoo Pilliar Covil Street	C. Chengalvaraya Chetty	11	0	0
16	Washermanpettah	Veegammah	8	0	0
144	Mount Road...	Messrs. Barrie and Co.	72	0	0
4	D'Mellow's Road	Veerasawmy	2	0	0
417	Male Asylum Road	Deputy Collector	1,717	6	0
91½	Yagambra Eswarer	Messrs. T. Iyavier and Brothers ...	38	0	4
125½	Davaraja Moodelly Street	Yaloomalay Chetty	78	3	3
240	China Bazaar Road	S. Ravannapa Chetty	120	0	0
180	Thavadoo Venkataswamy Street ...	C. Danalingam Moodelly	26	4	0
310½	Veeraragava Moodelly Street	Cunniah Chetty	51	12	8
	Washermanpettah	Vengataragavooloo Chetty	12	8	0
90	Colanthay Street	C. Kistappa Auchary...	15	0	0
79½	Vencadasa Naick Street	N. B. Theroovangada Moodelly ...	11	9	9
99	Ramasawmy Street	Vissooramuda Sastry...	16	8	0
147	Chembada Pulliar Covil Street... ...	Moonesawmy Naidoo	49	0	0
	Govindapah Naick Street	Numbaroomaliah	3	0	0
16	Washermanpet Burial Ground	N. Sevarama Moodelly	8	0	0
73	Poorosauvaukum High Road	C. Manuar Chetty	15	3	4
487½	Mint Street	Veerabadra Auchary	72	0	0
99½	Davaraja Moodelly Street	Vencataramoo Chetty	62	5	6
180	Peter's Road...	Moostar Hoossain Saib	15	0	0
260	China Bazaar Street	A. Moonoosawmy Moodelly	130	0	0
126	Avadanum Paupier Road	P. Veerasawmy Moodelly	10	8	0
43½	Moothookistnen Street	Goorooswmy Naick	7	4	0
204½	Govindapa Naick Street	Chinna Lutchmano Chetty	102	3	0
165½	Mottoo Street	Syed Hammed	20	11	3
299½	Poonamally Road	Chengalvaraya Chetty	62	5	8
216	Do. do.	Yagambra Reddy	31	8	0
	....	District Engineer, Presidency	4,275	0	0
252	Vencatarunga Pillay Street	M. Singara Charry	15	12	0
72	Chengalroya Moodelly Street	Sivaprasad	4	3	2
130	Vengatarunga Pillay Street	Vencatachella Naidoo	8	2	0
16	Shaik Imam Street	C. Gopalsawmy	8	0	0
1400	Vencatakistna Street...	G. Soobrayooloo Naidoo	550	0	0
180	Pareanna Maistry Street	A. Annamalay Chetty	15	0	0
65½	Nattoo Pilliar Covil Street	Streenevasa Moodelly	16	6	6
16	Burial Burning Ground, Mylapoor ...	Manica Chetty	8	0	0
63	Mahada Street, Triplicane	V. Aslapoothy Gopaulachary	5	4	0
141½	Narayanapa Naick Street	Syed Cauder Saib	35	7	0
44	Triplicane High Road	Ponnangannee Chetty	5	8	0
8	D'Mellow's Road	....	4	0	0
102½	Neelaveera Chetty Street	B. Veerasawmy Naidoo	6	6	6
		Total...	9,795	12	4

PUBLIC WORKS AND CONSERVANCY DEPARTMENTS.

TABLE No. 21.

The following is a Table of the number of Notices served under various Sections of the Act, showing those complied with, and those not complied with, from January to December 1879.

Section.	Requisitions.	Complied with.	Not complied with.	Total.	Remarks.
263	For neglecting to give notice to the President for the erection of huts ...	1	...	1	
278	„ „ to remove projections ...	6	...	6	
257	„ „ to give notice to the President before commencing buildings ...	70	8	78	
266	„ „ to construct a drain ...	9	...	9	
269	„ „ to keep branch drains and privies in order ...	18	1	19	
272	„ „ to provide latrines for servants on land exceeding 8 grounds...	11	...	11	
290	„ „ to fence ruined & dangerous buildings ...	135	1	136	
293	„ „ to enclose deserted buildings	11	...	11	
294	„ „ to repair or enclose dangerous places	81	4	85	
300	„ „ to deposit filth in provided receptacles	4	...	4	
305	„ allowing sewage to flow into streets	44	13	57	
312	„ neglecting to remove filth and noxious vegetation...	239	30	269	
313	„ „ to lime wash and cleanse buildings after eight days' notice ...	6	1	7	
320	„ „ to trim hedges above 7 feet	69	1	70	
	Breaches of Bye-Law. Regarding the regulations of markets, slaughter houses, offensive and dangerous trades, burial and burning grounds	13	9	22	
322	For neglecting to license offensive trades	1	...	1	
	Total...	718	68	786	
	Last nine Months of 1878...	327	33	360	

APPENDIX IV.

PUBLIC WORKS AND CONSERVANCY DEPARTMENTS.

TABLE No. 22.

Table showing the number of Prosecutions instituted from 1st January to 31st December 1879.

Sections of the Municipal Act.	Charge.	Number of summons served.	Convicted.	Acquitted.	Withdrawn.	Party not found.	Undisposed of.
220	For injuring the water pipes, &c. ...	2	2	...	...	...	...
225	„ fouling water in Tanks ...	38	36	...	1	1	...
256	„ renewing huts with inflammable material without license... ...	245	96	88	51	10	...
278	„ neglecting to remove a projection or encroachment after being served with a notice	1	...	1	...	...	...
281	„ neglecting to remove obstructions on the sides of the streets ...	77	28	2	43	1	3
283	„ obstructing the public thoroughfare.	7	4	...	3	...	...
286-287 ...	„ depositing building materials on the Road without license... ...	9	9	...	...	...	...
294	„ neglecting to enclose dangerous places	7	1	6	...	...	...
298	„ depositing night soil on the street...	45	32	2	10	1	...
299	„ depositing dust, dirt, ashes, &c., in the streets	24	21	...	1	2	...
304	„ neglecting to remove filth within 24 hours	1	1	...	...	...	...
305	„ allowing offensive liquid matter to run into the street	14	7	2	5	...	...
308	„ depositing night soil in the street...	45	39	6	...	...	...
308	„ depositing night soil into the Dust Bin	20	15	5	...	...	...
312	„ filthy premises	55	30	13	11	...	1
322-33 ...	„ carrying on offensive trades without license	315	137	26	145	6	1
320	„ neglecting to trim hedges above 7 feet	2	...	1	...	...	1
325	„ using a place as Hack's stables without a license	122	66	10	42	3	1
328-29 ...	„ using a place as timber Depôt without license	226	125	25	71	5	...
350-51 ...	„ do Market do ...	35	6	1	28	...	...
359	„ burying corpses in unregistered Burial Grounds	7	1	4	2	...	...
364	„ burying a corpse within a place of public worship	1	1	...	...	...	...
367	„ burying a corpse within 6 feet from the surface of the ground ...	4	...	2	...	...	2
407	„ for molesting Municipal servants in the execution of their duty ...	9	6	...	3	...	...
278 I.P.Code 426 do	„ nuisance not provided for in Municipal Act...	4	4	...	...	...	...
	Total...	1,315	667	194	416	29	9
	Last nine Months of 1878...	1,686	1360	28	200	72	26

PUBLIC WORKS AND CONSERVANCY DEPARTMENTS.

TABLE No. 23.

Table showing the revenue collected by the Public Works and Conservancy Departments from different sources.

	Rs.	A.	P.	Rs.	A.	P.
General Markets	6,296	3	6			
Slaughter Houses.	7,277	8	0	13,573	11	6
Rent of Municipal Lands and Buildings	3,390	3	0			
Sale of Rubbish and night Soil...	4,982	15	0			
Do. Grass and Hay from Sewage Farms Royapooram	127	7	11			
Do. Grass and Hay from Sewage Farms D'Mellows Road...	3,361	4	7			
Do. Grass and Hay from Sewage Farms, Egmore..	24	2	8			
Do. Grass and Hay from Sewage Farms, Triplicane	1,639	10	5			
Do. Grass and Hay from Sewage Farms, Kistnampett	3,552	5	4			
Do. Public Lands	9,839	11	4			
Revenue from Municipal cart-stand	789	7	10			
Grazing and Avenues	1,512	9	3			
Sale of Firewood and Bratties from Hindu Burial Ground	134	12	8			
Sale of Blood	1,300	0	0			
Licences for Markets, Depots, dangerous and offensive, Trades, &c.	8,686	14	7			
Sale of old stores	872	6	5			
Tools and Plants	307	6	0			
Electric Light	53	12	0			
Other Items	40	10	9			
Fines collected from coolies, &c.	2	4	0			
Water Works Sundries...	10	10	0			
Water-supply	1,285	0	10			
Services rendered to Individuals	23,960	9	1			
				65,874	3	8
			Total...	79,447	15	2

PUBLIC WORKS AND CONSERVANCY DEPARTMENTS.

WATER WORKS.

The rainfall during each month has been as follows at the Red Hills Lake whence our supply is drawn:—

Month.	Inches.	Month.	Inches.	
January ...	2·15	July ...	4·50	
February ...	0·00	August ...	5·26	
March ...	1·66	September ...	0·50	
April ...	0·00	October ...	14·76	
May ...	9·25	November ...	12·88	
June ...	1·86	December ...	2·94	
	14·92	+	40·84	During the year = 55·76s

On the 1st of January the water stood at 42·16, and on the 31st December 1879 at 42·68. The variations during the year are shewn in the diagram attached, in which the rainfall also is graphically delineated.

On the 20th of May a very heavy fall of rain took place and the tank rose from 38·83, at which it then stood, to 39·97 and some water was lost owing to the failure of a ring-bund at the sluices under repair. Again on the 19th December we had a heavy fall of rain when part of the ring-bund was washed away, but as the flow of water into the tank at the time was as great as the out flow, and the water at the time discharging over the Calingulah, little or no water was lost.

DELIVERY CHANNEL.

A slip of about 50 feet in length took place at 6 P.M. on 30th August at 4m. 3 fur. from the Red Hills. The water was lowered in the channel and the slip repaired before dark on the 31st August. These slips are caused by rats and snakes boring holes, and by water oozing through the channel at places where it has been badly constructed, &c. The channel is a continual source of trouble to us and an obstacle to a continuous supply produces a very considerable deterioration of the water at the same time causes our pipes to be filled with fish, snails, &c., which we are unable to prevent with the best strainers as when they enter the pipes they are in almost a microscopic state.

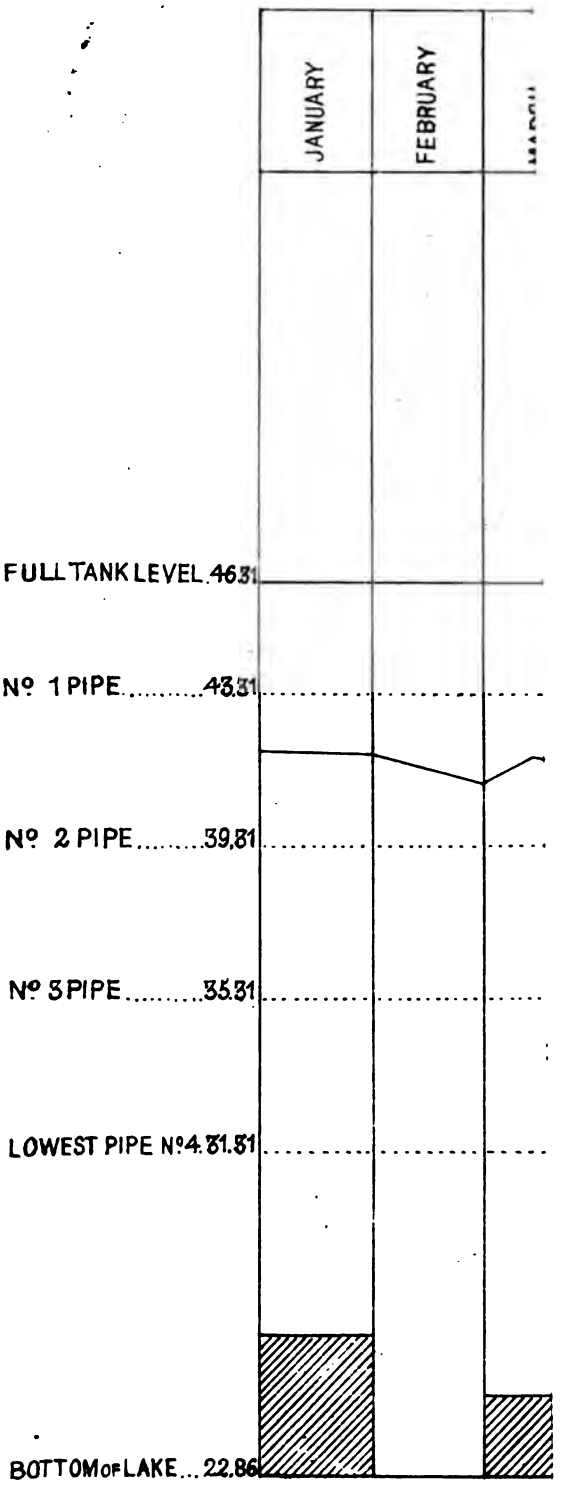
Very little can be done to improve the channel without cutting off the supply to Madras for some considerable period, and the substitution of a pipe for the channel is urgently called for.

All the bridges and culverts on the channel have been repaired during the year, as also the sluices and basin at the Red Hills.

The water was only once shut off from the town during the year, from 6 P.M. on the 5th April until 5 A.M. on the 9th April, during which time the channel was weeded.

MAINTENANCE OF PIPES AND FOUNTAINS.

The pipes and fountains were kept in good order throughout the year as far as possible, but the condition of our pipes is anything but satisfactory. In fixing a 10in. Branch to the 27in. Main in Triplicane 6in. in depth of very offensive silt was found in our pipes. On fixing a scour pipe in Harris Road and on opening it for the first time a very large quantity of snails, rust, &c., was discharged.


JANUARY
FEBRUARY
FULL TANK LEVEL 46.31
Nº 1 PIPE 43.31
Nº 2 PIPE 39.81
Nº 3 PIPE 35.31
LOWEST PIPE Nº4 31.81
BOTTOM OF LAKE ... 22.86

Note

A tap in Avadanum Paupier Road was blocked with snails, and from the same tap was discharged in one hour about three or four gallons of snails.

The following report printed in the Proceedings of the Standing Committee of 28th May 1879, will shew the state of the pipes and the channel.

Report on the Red Hills channel and an examination of two mains at the time the water was last shut off from Madras.

The water was shut off from Madras from the 5th April until the 9th April, during which time the delivery channel was weeded, and a large quantity of mud removed.

Before the water was shut off, the quantity of weeds removed daily was very great as may be seen from the following, which is an average day's collection.

By	No.	1	Walkman	550	lbs.
,,	,,	2	,, ...	390	,,
,,	,,	3	,, ...	1,304	,,
,,	,,	4	,, ...	1,973	,,
			Total ...	4,217	,, or say 2 tons.

These weeds seriously impeded the flow of water, and though they may have acted in a manner as a filter, still removal on account of the obstruction they caused was necessary.

The following table shows the results of an analysis before the channel was cleaned and one after cleaning:—

From Basin, Red Hills.		From Masonry Shaft, Madras.		
Before.	After.	Before.	After.	
0·250	0 320	0·270	0·330	Total solids.
0·065	0·050	9·085	0·070	Volatile.
0·064	0·080	0·064	0·080	Sodium of Chloride.
4°·3	5°·9	3°·9	5°·9	Total hardness.
1°·5	2°·8	1°·5	2°·8	Permanent do.
0·12	0·80	0·12	0·80	Free Ammonia.
0·72	1·12	0·64	1·12	Albuminoid Ammonia.
0·37	0·60	0·60	0·60	Nitric Acid.

It will be seen that the amount of solids and Ammonia at the Shaft was more after the channel was cleaned than before, but as this was also the case at the Red Hills, the cleaning of the channel had little or no effect with regard to these matters.

The Chemical Examiner also states that in the analysis of water from the Shaft before the channel was cleaned, animal life was most abundant, but in the analysis after the cleaning no living animals were observed and only a few dead.

The cleaning of the channel had therefore the effect of extirpating for a time live animals.

It therefore cannot be doubted that the animals are produced in the channel; and that they enter the pipes there can be also no doubt.

A man hole in Harris Road was opened during the time the water was shut off, and 1in. of silt filled with snails was found; a pot-full was collected. The smell was very bad and sickening. The main in the People's Park was also opened, but as the water had previously been let off into a tank no snails were found. The pipes were however found thickly encrusted with rust.

I think this state of matters is much to be regretted: the water often smells at various parts of the town, and it is no doubt, from the large quantity of animal matter in the pipes and as time goes on, this will not grow less.

We cannot, with our present channel and without filters and a closed pipe from the filter, prevent these animals getting in, but to keep our pipes as clear as possible is evidently a duty which cannot be neglected.

This can be done by means of scour pipes taken from the valleys in the plains, whither the animal matter would be washed down and then through the scour pipes into tanks, &c.

I have estimated for this work, and propose the following scour pipes meantime. It will take some time to get the necessary branches, valves, &c., out from England; and sanction should therefore be given, if my proposals are adopted, to put in the order in hands at once. The estimate includes the cost of branches, pipes, valves, &c., and laying and fixing.

List shewing the places it is proposed to fix scour pipes with valves, and the probable cost of same.

	Particulars.	Amount.		
		Rs.	A.	P.
1	42 in. × 20 in. in Ootary Nullah	600	0	0
1	36 „ × 15 „ at Gengadra Easwarer Covil Tank	450	0	0
1	30 „ × 15 „ back of Commissioner of Police compound	400	0	0
1	27 „ × 14 „ Harris Bridge	350	0	0
1	27 „ × 14 „ Choolay Bazaar Road...	400	0	0
1	24 „ × 12 „ People's Park	300	0	0
1	24 „ × 12 „ Ramanen Street	300	0	0
1	24 „ × 12 „ Junction of Wallajah and Triplicane High Road ...	320	0	0
1	21 „ × 10 „ Junction of Poonamallee and Sydenham's Road ...	300	0	0
1	21 „ × 10 „ Benfield Esplanade	260	0	0
1	21 „ × 10 „ Junction of Mint Street and Ramanen Street... ...	300	0	0
1	20 „ × 10 „ Junction of Popham's Broadway and China Bazaar Road...	250	0	0
1	18 „ × 9 „ Commander-in-Chief's Bridge	220	0	0
1	14 „ × 7 „ St. Andrew's Bridge	180	0	0
1	14 „ × 7 „ Woods Road	180	0	0
1	14 „ × 7 „ Oodacall Street, Big Parcherry	180	0	0
1	12 „ × 6 „ Elephant Tank	150	0	0
1	12 „ × 6 „ Junction of Goundappa Naick Street and Audiappa Naick Street	150	0	0
1	12 „ × 6 „ Junction of Mint Street and Rassappa Chetty Street ...	150	0	0
1	9 „ × 6 „ North Beach Road	140	0	0
1	12 „ × 6 „ Barber's Bridge	150	0	0
		5,730	0	0
	Contingencies 10 per cent. ...	573	0	0
	Total Rupees...	6,303	0	0

The scour pipe fixed at Harris Road has been of considerable advantage if it

may be judged from what came out of it; and the other scour pipes, of which one or two have been fixed since the beginning of 1880, give similar satisfactory results.

An alteration was made in the manner of supporting the 24in. main which crosses the canal at the Elephant Gate Bridge. The work was done by Government to prevent the navigation of the canal being obstructed. The pipe is now hung from the bridge instead of being supported by a wooden girder underneath.

HYDRANTS.

Thirty new double Hydrants were fixed during the year. One mouth of these Hydrants is of the ordinary dimension of 2in. diameter and the other is 4½in. to suit the steam fire-engines in use in the town. They were fixed at the following places. Twenty more will be fixed during 1880.

1 at Madras Railway Central Station.
1 „ General Hospital.
1 „ Bank of Madras.
1 „ Popham's Broadway, between Post Office and Market.
1 „ do. Junction at Munnady.
1 „ do. do. Thathamootheappen Street.
1 „ do. near 4-Tap fountain.
1 „ do. near Industrial School.
1 „ North Beach Road, opposite High Court.
1 „ Jaffer Serang Street, back of Custom Office.
1 „ North Beach Road, opposite P. and O. Office.
1 „ Opposite Agra Bank.
1 „ Junction of Poonamallee and Sydenham's Road.
1 „ Poonamallee Road, opposite Gun Carriage Factory and School of Arts.
1 „ Rottler's Lane, near Smithfield Market.
1 „ Mount Road, opposite Orr and Sons.
1 „ do. Junction of Blacker's Road.
1 „ Opposite Deschamps and Co.
1 „ do. Asylum Press.
1 „ do. Norton and Co.
1 „ Patter's Road, opposite Madras Club.
1 „ Chepauk, opposite Presidency College.
1 „ D. P. W. Offices.
1 „ Engineering College.
1 „ Revenue Board.
1 „ Senate House.
1 „ Errabauloo Chetty Street.
1 „ North Beach Road, near Lord Clive's Redoubt.
1 „ Mint Street Junction with Ramanen Street.
1 „ Pantheon Road Junction with Marshall's Road.

EXTENSION OF WATER WORKS.

This question has been one which has had much attention during the year. The Act of 1878 was the first to allow of a water tax being levied without the requirement of the supply being first given, but it is a point at law still undecided whether persons paying such tax cannot claim damages for non-supply. As from the following it will be seen that to completely comply with the Act would throw burdens on the Commissioners which they have not the funds to meet, much con-

sideration was given to the question and the resolution which follows the report is the last which the Commissioners have made on the subject.

"The preparation of a complete scheme for the extension of the water distribution now called for by the Government, has been to a certain extent anticipated by the action taken by the late Commissioners. As recommended by the late Budget Committee, the Vice-President in charge of the Public Works Department was requested to furnish the Commissioners, as early as possible, with an approximate estimate of the cost of completing all the additional pipe-laying and stand-pipe erection which the Commissioners are required to carry out under Section 211* of the Act, and also of the additional works which are required to be executed before the Commissioners can be said to have discharged the obligation imposed upon them in the last clause of the same section, which is as follows :—

* Which requires the erection of a stand-pipe within 150 yards of every house in every public street.

"It shall be the duty of the Commissioners to make adequate provision that the supply of water shall be continuous throughout the year, and that the water supplied may be at all times pure and fit for human consumption."

3. Mr. Jones' estimate for providing filtering and pumping works at the Red Hills with a 36in. main to Madras in lieu of the present open channel amounts to 13⅔ lakhs or 10½ lakhs, according as laterite or brick is used for the masonry work.

4. The Committee have also been supplied with the following statement of the estimated cost of the extension of the water distribution as required by the Act.

		RS.
1st Division		3,00,000
2nd do.		1,08,904
3rd do.		64,629
4th do.		2,00,000
5th do.		1,00,000
6th do.		2,00,000
7th do.		2,00,000
8th do.		3,50,000
Total Rs. ...		15,23,533

5. In the first three divisions the estimates have been worked out in detail. In the other five they are made roughly.

6. The Committee have not been furnished with any estimate for providing reservoirs for ensuring continuity of supply in the event of any accident occurring to the Red Hills main. But one or more of these would be necessary to meet the requirements of Section 211, in addition to the filtering and pumping works estimated for by Mr. Jones.

7. It would seem, therefore, that in order to do all that is required under the Act the Commissioners must execute the following works :—

	RS.
Filtration works, &c., say	10,60,000
Extension of distribution	15,25,000
Total ...	25,85,000
or say with reservoirs ...	30,00,000

8. Assuming that the Government of India will be prepared to advance the above sum at 4½ per cent. interest, and that an additional 2 per cent. be paid to a Sinking Fund for the extension of the loan in about 30 years, the yearly charges of the Water Works would be approximately as follows:—

		Rs.
Interest and Sinking Fund of present loan of Rs. 14,30,000	...	85,800
Do. an additional loan of Rs. 30,00,000 ...	...	1,95,000
Total	...	2,80,800

			Rs.
Maintenance charges including pumping	...	...	73,000
Charges for Red Hills water ...	...	...	10,000
Establishment and General Funds charges	...	...	19,763
		Total...	3,83,563

9. The above is a fairly accurate estimate of the annual charges which would require to be met for putting and maintaining the Water Works in the state which is contemplated by the Act.

10. The annual revenue derivable from the 4 per cent. water rate is estimated at about Rs. 1,29,000, or about a-third of the annual charges shown above.

11. The Committee trust that it will be evident from what they have shown above that it would be merely lost labor to prepare elaborate plans for supplying the whole Municipal area with water in the mode prescribed in the Municipal Act."

12. When it is considered that the Legislature, with the view of ensuring the full performance of the duties imposed on the Commissioners under the Act, have provided in Section 433 that any person aggrieved by the failure of the Commissioners to carry out any work which they are bound to carry out under the Act may bring an action against the Commissioners, and that, if the Court finds that such work is incumbent on the Commissioners, it may direct the immediate performance of such work. It will be seen that the Commissioners are placed in a false position as regards the rate-payers in being rendered liable to carry out works which they have not the means to carry out. It appears to the Committee that the first duty of the Commissioners should be to extricate themselves as far as lies in their power from this position, and they lose no time in making what they consider a proper recommendation under the circumstances.

13. The Committee have been furnished with a plan showing the portions of the 1st, 4th, 6th and 8th Divisions, which should be permanently excluded from the water supply area of the Municipality partly because those portions are thinly populated and are sufficiently well supplied by wells, tanks, &c., but mainly because the cost of laying on pipes thereto would be out of all proportion to the revenue derivable therefrom on account of water-rate.

14. The Committee have had before them an estimate prepared by the Revenue Vice President of the loss of revenue resulting from the exemption from the water-tax of the portions abovementioned. This amounts to about Rs. 8,500 annually.

15. Pending the preparation of a complete scheme for extending and improving the water supply within the remainder of the Municipality, the Committee recommends that the Government be moved to exempt from water-tax from the commencement of 1880 the portions now proposed to be permanently excluded

from the water supply area, and, in order to protect the Municipal Fund from losses and the executive staff from the disturbance and pre-occupation which will probably be occasioned by the immediate commencement of a large number of law suits under Section 433 to compel the commissioners to carry out the work which they are bound to carry out under Clauses 2 and 3 of Section 211, the Committee recommends that the Government be moved to pass a short Act to rescind those clauses, or to give such other relief as the circumstances of the case seem to require.

16. The Committee are not at present in a position to make any recommendation for the further development of the Red Hills Water supply. Looking at the revenue derivable from the imposition of a 4 per cent. rate and sundry receipts connected therewith, the Committee find that in the regular estimate of the current year a sum of Rs. 1,29,039 is entered as realizable. If the amount proposed above to be remitted be deducted, the annual revenue will be reduced to about Rs. 120,000. Looking at the charges side of the regular estimate, the estimated cost of new works and improvements and the payment of arrears of interest being deducted, the estimated annual cost of maintaining the existing works will be found to be Rs. 120,107. It is manifest, therefore, that any further extension of pipe-laying or improvement of the supply must be met from the General Funds.

17. Such being the case, the question of water-supply extension must be considered along with that of drainage, and the cost of both must be brought within the means at the disposal of the Commissioners, as the settlement of the matter referred to in para. 15 appears to the Committee to admit of no delay they recommend that a representation be at once made to Government on the subject by the general body of the Commissioners.

Resolved that the President be requested to convene a special General Meeting of the Commissioners on Friday, the 10th instant to consider the recommendations contained in the above resolution."

" As regards the water works, the Committee consider that it would be unadvisable to attempt to do more than complete the distribution, in accordance with the Act, in the 2nd, 3rd, and 7th Divisions, and to extend the supply to Royapooram and Washermanpettah in the 1st Division. The 5th Division is partially supplied, but a great portion of it is comparatively thinly populated. To complete the pipe laying in this Division, in accordance with the requirements of the Act would be very expensive. Any extensions in the crowded parts of the 5th Division, which the Divisional Commissioners might specially recommend, could be estimated for. There is also a partial supply in the 4th, 6th, and 8th Divisions. The Committee recommends that no extension be undertaken in these Divisions.

" The Committee with the view of improving the quality of the water, and ensuring continuity of supply, would advise the inclusion in the estimate, of the cost of erecting a water tower for a new off-take at the Red Hills, and for laying a 36 inch Main to Madras.

" The Committee further recommend the construction of a large reservoir in the Spur Tank for use, when the supply is cut off at the Red Hills.

" The Vice-President will be requested to follow these instructions in preparing the schemes called for in the Government Order of the 6th August.

PUBLIC WORKS AND CONSERVANCY DEPARTMENTS.

A plan showing the area which is proposed to be excluded from the water supply was placed before the Commissioners and inspected by them.

Proposed by the President, and seconded by the Honorable J. G. Coleman.

"That the Commissioners are of opinion that it is not advisable to extend the water supply to those portions of the Municipal area shown in the plan as uncoloured; and that the Government be requested to exempt such portions from the water-tax by Notification under Section 139."

At the beginning of the year Rs. 14,000 were allotted for extension of the pipes to the following places which had been decided upon before the framing of the budget and the following table shews the position and cost of the extensions made—

TABLE

Shewing extension made in Water-works.

Divisions.	From	To	Size of Pipes.	Length of Pipes.	No. of Fountains.	Cost.			Fountains erected.
						RS.	A.	P.	
2nd	Audiappa Naick Street.	Govindappa Naick Street ...	5"	600	2	1,738	3	2	Wall fountain.
			4"	800					
			2"	250					
„	Mint Street ..	Ponnappa Chetty Street ...	3"	400	3	604	12	7	do and stand pipes.
„	.. ..	General Hospital Road ...	1½"	120	1	233	10	8	Pillar fountain.
„	Rassappa Chetty's Street	Wall Tax Road ...	3"	400	1	378	1	9	Wall Tap.
„	....	Seven Well Street ...	...	...	1	27	9	10	do
3rd	.....	Iyeppen Street ..	1½"	50	2	166	14	9	do
„	Salavenayagar Street ...	Sivamoothiah Moodelly Street.	2½"	600	2	414	6	7	do
„	Gooroovappen Street ...	Vurthamootheappen Street ...	4"	870	2	937	2	10	do
		Junction of General Hospital and Benfield Esplanade Road.	1½"	40	1	144	4	5	Pillar fountain.
„	Popham's Broadway ...	Old Jail Street ...	7"	600	1	1,021	4	1	do
„	China Bazaar Road ...	Popham's Broadway ...	2½"	1,100	3	937	2	10	do
		Junction of Soonkooram and Condy Chetty Street ...	1½"	60	2	315	2	3	do
„	Kistnasawmy Pagoda....	Linga Chetty Street & Thumbu Chetty Street .	2½"	250	2	304	1	11	Wall fountain.
„	Moothoo Street ...	Linga Chetty Street & Thumbu Chetty Street ...	2½"	150	4	408	9	8	do
„		Thumboo Chetty Street ...	5"	60	...	1,177	14	10	Bathing fountain.
			4"	40					
			3"	20					
„		Linga Chetty Street ...	3"	300	1	...	...	...	Wall Tap,
4th		Cundasawmy Covil Street ...	1"	35	1	50	6	...	Stand pipe.
5th		Junction of Astaboojam and Perambore Barracks Road ...	1½"	20	1	179	1	11	Pillar fountain.
„		Avadanum Panpier Street ...	4"	830	2	926	13	3	Wall Tap.
„	Choolay Bazaar Road ...	Sawmy Pillay Street ...	3"	1,200	4	975	12	...	do
		Junction of Jeremiah & Vepery Church Road ...	1½"	120	1	267	6	...	Pillar fountain.
„		Vepery High Road and at the Junction of Naval Hospital Road ...	1½"	100	2	337	5	6	do
„		Pantheon Road ...	1"	6	1	43	13	5	Wall Tap.
		Choolay Bazaar Road ...	1½"	50	2	89	...	5	do
„		Municipal Cart Depot in Avadanum Paupier Street ...	1½"	225	...	120	3	8	
6th		Patter's Road ...	1½"	20	2	88	10	11	Wall fountain.
7th		Junction Aroonachalla Moodelly and Sawmy Pandaram Street.	1½"	36	2	185	4	4	Wall Tap.
„	Sawmy Naick Street ...	Latrine in Soonkoowar Agrarum ...	3"	1,300	3	1,028	11	2	Wall Tap and pillar fountain.
„		Parthasarthy Tank ...	2"	15	3	165	14	4	Dhoby fountain.

PUBLIC WORKS AND CONSERVANCY DEPARTMENTS.

TABLE

Shewing length of each size of piping laid during the year.

Size.	Description	Lineal Yards.	
2"	piping.	88	
2½"	,,	700	
3"	,,	1,218	
4"	,,	847	
5"	,,	220	
7	,,	200	

The following fountains which were provided from other sources than the Municipal Fund were opened during the year.

The Maharajah's Fountain.—Given by H. H. the Maharaja of Vizianagram.

The Anderson Memorial.—Given by the Committee.

Cattle Drinking Trough.—Given by Mr. C. V. Cunniah Chetty.

PRIVATE SERVICE.

A very large proportionate increase is found in the number of House services made during the year. In the latter nine months of 1878 there were 57 added and in 1879 there were 158 this is a fact which shews that the water supply is much appreciated by the people and though it is not by any means what it ought to be yet it must be and is considerably better than many of the wells in the crowded portions of Black Town, Chintadripettah and Triplicane.

PUBLIC WORKS AND CONSERVANCY DEPARTMENTS.

List of House Connections made in 2nd Division during 1879.

Number.	Names of Roads or Streets.	Names of Party.	Door No.	Size of Pipe in Street.	Size of connection Pipe.	Size of discharge Cock.	Number of discharge Cock.	Amount.			Remarks.
1	Mint Street	T. K. Narayana Chetty ...	71	12"	1¼"	1"	1	19	1	10	
2	Do. do.	Mooroogappa Moodelly ...	196	12"	1¼"	1"	2	19	10	1	
3	Do. do.	Moonesawmy Naidoo ...	175	12"	1½"	1"	2	131	8	8	
4	Do. do.	Ramakistna Moodelly ...	229	7"	1½"	1"	2	101	8	9	
5	Do. do.	Yagambra Easwarer Pagoda ...	...	12"	1¼"	1¼"	S.Cock	13	13	9	
6	Do. do.	Umbasunker Davey ...	442	12"	1½"	3-1" / 2-¾"	5	160	5	11	
7	Do. do.	S. Coollappa Chetty ...	29	12"	1½"	1"	2	122	6	11	
8	Do. do.	C. Hanoomuntha Rao ...	132	9"	...	...	...	4	0	0	Altering the Stand Pipe.
9	Do. do.	M. Soondra Iyer ...	111	14"	1¼"	1"	2	79	8	11	
10	Do. do.	Roop Kishore Ioojons Mull ...	421	9"	1½"	1-1" / 1-¾"	2	93	8	1	
11	Do. do.	Rawdut Davey ...	72	12"	1½"	1¼"	1	99	6	2	
12	Do. do.	K. Soobroya Moodelliar ...	396	20"	1½"	1¼"	1	37	5	6	
13	China Bazaar Road ...	C. Chinnappa Chetty ...	12	...	1½"	1"	1	20	2	5	
14	Do. do. ...	Do. do. ...	12	...	1½"	1"	1	8	5	0	Extension.
15	Yagambra Easwarer Agraram	Iyahvier Brothers ...	18	5"	3"	1"	2	318	4	7	
16	Do. do. ...	Do. do. ...	18	5"	1¼"	1"	2	70	6	5	Extension.
17	Do. do. ...	Do. do. ...	18	5"	1"	1"	1	8	6	5	Extension.
18	Cope Vencatachella Iyer Street	Lingiah Chetty ...	24	4"	1¼"	1"	2	24	5	11	
19	Do. do. ...	Vencatasawmy Chetty ...	29	4"	⅝"	⅝"	1	26	1	9	Extension.
20	Do. do. ...	Vurthiah Chetty ...	8	4"	1¼"	1"	2	126	1	6	
21	Do. do. ...	Soobiah Chetty ...	28	4"	1½"	1"	2	137	2	1	
22	Do. do. ...	Cotta Theroovengadathan Chetty ...	5	4"	1¼"	1"	2	107	7	3	
23	Seven Well Street ...	Public Work Stores ...	...	4"	4"	...	...	861	9	10	
24	Do. do. ...	Do. do. ...	...	4"	2½"	...	...	1,320	2	11	Extension & fixing Hydrant
25	Casavier Street ...	Soobraya Chetty ...	2	3"	1¼"	1"	2	97	15	2	
26	Thathamoothiappa Street.	Soobrayaloo Naidoo ...	12	4"	1½"	1"	2	25	10	11	
27	Do. do...	O. Lutchoomiah Chetty ...	51	4"	1½"	1"	2	22	15	11	
28	Andiappen Naick Street...	G. Narasimooloo Chetty ...	32	14"	1½"	1"	2	27	9	11	
29	Do. do. ...	Pariah Chetty ...	135	14"	1½"	1¼"	1	21	1	9	
30	Do. do. ...	N. Ramalingam Pillay ...	115	14"	1'	1¼"	1	82	6	7	
31	Moolla Saib Street ...	Singaravaloo Dasigar ...	41	4"	1¼"	1"	1	155	12	10	
32	Venkier Street ...	C. Govindoo Moodelly Coomaragooroo Moodelly ...	27	7"	1¼"	1	1	214	8	0	
33	Narrayana Moodelly Street	C. Ramiah ...	96	4"	1½"	1¼"	2	153	7	10	
34	Do. do. ...	Dava Rookmaney Ammal ...	5	4"	1½"	1¼"	1	96	8	5	
35	Annapillay Street ...	Mooneprasath ...	74	7"	1½"	1¼"	2	151	4	2	
36	Do. do. ...	P. Anthumoola Moodelly ...	77	7"	1¼"	1"	1	33	12	10	Extension.
37	Vythenatha Moodelly St...	P. Doorasawmy Moodelly ...	1	4"	1½"	1"	1	67	3	7	
38	Sathany Streenevassa Iyer Street	Moonesawmy Moodelly ...	...	...	1¼"	1"	2	111	2	7	
39	Soobramaneya Moodelly Street	T. Chinnathumby Moodelly ...	36	7"	1½"	1"	2	50	15	10	
40	Rasappa Chetty Street ...	Mooroogappa Chetty .	133	4"	1¼"	1-¾"	2	19	11	10	
41	Govindappa Naick Street.	Vencatasoobrayaloo Chetty ...	41	5"	1½"	1"	3	46	4	7	
42	Do do ...	Vencatachella Chetty ...	25	5"	1½"	1"	1	102 / 5	7 / 1	7 / 4	
43	Do do ...	Vencatarama Chetty ...	29	5"	1½"	1"	2	39	7	11	
44	Do do ...	Annammall ...	179	7"	1¼"	1"	1	75	9	2	
45	Do do ...	N. Vencatarungam Chetty ...	14	5"	1¼"	1-1¼" / 1-1"	2	23	10	1	
46	Do do ...	T. V. Soobboo Chetty ...	226	4"	1½"	1-6" / ¾-2"	8	64	13	4	
47	Do do ...	Theroovengadathan Chetty ...	15	4"	1½"	1-¾" / 2-1"	3	146	10	6	
48	Do do ...	Cundappa Chetty ...	224	4"	1½"	1-¾" / 1-1"	2	150	10	10	
49	Do do ...	Numberoomal Chetty ...	9	5"	1¼"	1"	3	112	1	8	
50	Do do ...	M. Gooroovappa Chetty ...	11	4"	1¼"	3-1" / 1-¾"	3 / 1	39	11	8	
51	Do do ...	Cundappa Chetty ...	224	5"	1¼"	...	...	26	1	3	Extension.
52	Do do ...	Theroovengadathan Chetty ...	15	4"	1"	...	...	8	6	9	Extension.
53	Do do ...	K. Parthasarathy Naidoo ...	203	5"	1¼"	1-1" / ¾-1"	2	22	0	0	
54	Do do ...	Parasoorama Chetty ...	28	5"	1¼"	1¼"	1	15	15	0	
55	Do do ...	Vencatarungiah Chetty ...	14	5"	¾"	¾"	1	10	13	6	Extension.
56	Do do ...	Lutchocmoo Narasoo Chetty...	187	12"	1¼"	1-1" / 1-¾"	2	94	3	9	
57	Do do ...	S. Venkatakistnamah Chetty...	10	5"	1¼"	1"	2	140	4	0	
	Do do ...	Do do ...	10	5"	1"	...	...	21	0	0	
58	Do do ...	Cottah Lutchoomiah Chetty ...	70	12"	1½"	1"	1	91	11	10	
59	Do do ...	Theroovengadathan Chetty ...	212	4"	1½"	1-1" / 1½-1"	2	37	2	1	

PUBLIC WORKS AND CONSERVANCY DEPARTMENTS.

Number.	Names of Road or Street.	Names of Party.	Door No.	Size of Pipe in Street.	Size of connection Pipe.	Size of Discharge Cock.	No. of Discharge Cock.	Amount.			Remarks.
60	Govindappah Naick Street.	Soobrayaloo Chetty ...	33	5"	1¼"	4-1½" 2-1"	6	276	12	3	
61	Do do ...	D. Numberoomal Iyah ...	220	5"	1½"	1"	3	153	0	0	
62	Do do ...	Nummalwar Iyah ...	228	4"	1½"	1"	3	145	11	8	
63	Do do ...	Ramathilacum Ummal ...	150	12"	1½"	1-1" ¾-1"	2	92	6	11	
64	Do do ...	Y Vencatarungum Chetty ...	217	4"	1½"	1"	2	23	11	8	
65	Do do ...	C Nummalwar Iyah ...	228	4"	1"	¾"	2	24	6	6	Extension.
66	Do do ...	C. Nummalwar Iyah ...	235	4"	1½"	1"	1	84	10	11	
67	Do do ...	J. Soobrayaloo Chetty ...	33	4"	1"	1"	1	37	2	2	
68	Do do ...	Abboy Chetty ...	151	12"	2"	2-1" 1-¼"	3	44	9	1	
69	Do do ...	Sadagopiah ...	229	4"	1½"	¾"	1	31	4	4	
70	Do do ...	S. V. Soobboo Chetty ...	16	4"	1"	¾"	2	14	5	0	
71	Do do ...	Chundra Soobrayaloo Naidoo...	56	12"	1"	1"	1	13	2	7	
72	Do do ...	Soobrayaloo Chetty ...	33	...	...	...	...	7	12	11	Altering stand pipe and jet.
73	Do do ...	Do do ...	33	...	...	...	...	10	2	5	Do. do.
74	Do do ...	Etthindraperoomal Iyah ...	12	4"	1½"	1"	3	144	9	11	
75	Do do ...	Vijiahragavooloo Chetty ...	200	4"	1"	1"	1	15	11	7	
76	Do do ...	Parangoosa Numbbe ...	207	4"	1½"	1"	3	126	13	6	
77	Do do ...	Theroovengadathan Chetty ...	21	4"	1½"	1"	2	82	6	9	Extension.
78	Do do ...	Abboy Chetty ...	151	12"	1½"	1"	2	9	13	2	Extension.
79	Do do ...	Chundra Soobrayaloo Naidoo...	56	12"	1	¾"	1	8	15	1	
80	Do do ...	Satagopiah ...	229	4"	1½"	1"	1	86	12	8	

List of House connections made in 3rd Division.

1	Errabaloo Chetty Street...	Secretary, Church of Scotland Mission ...	...	...	1½	2-½" 1-1"	3	263	9	2	
2	Ramasawmy Street ...	G. Mahadava Chetty ...	51	7"	1½"	1"	1	83	8	6	
3	Do do ...	Visvanatha Sastry ...	27	7"	1½"	1"	2	120	0	0	
4	Do do ...	Cothundasawmy Pillay ...	84	7"	1½"	1"	1	20	2	10	
5	Do do ...	Do do ...	84	7"	...	¾"	1	2	3	7	Extension.
6	Do do ...	Veerasawmy Pillay ...	31	7"	1½"	1-1" 1-¼"	2	79	8	8	
7	Do do ...	A. Soobramanya Iyah ...	100	7"	1½"	1"	1	67	7	4	
8	Thumboo Chetty Street...	Cutchaloo Chetty ...	294	18"	1½"	1"	2	21	7	9	
9	Do do ...	P. Cundasawmy Chetty ...	278	16"	1½"	1"	2	137	3	5	
10	Do do ...	Aza Mahomed Laduck Cazeeroon Sahib ...	184/185	6"	1½	2-1½" 2-1"	4	219	8	5	
11	Do do ...	Vencatachella Chetty ...	94	16"	1½"	1"	1	75	13	8	
12	Do do ...	Ramalingum Pillay ...	18	16"	1½"	3-1½" 1-¼" 1-1"	5	209	11	9	
13	Ancharappen Lane ...	G. Kistnasawmy Chetty ...	6	4"	1½"	1"	2	141	5	9	
14	Anderson Street ...	Mr. G. H. Smith ...	24	7"	1½"	5-¾" 2-¾"	7	167	14	2	
15	Do do ...	Do ...	25	7"	¾"	¾"	1	15	0	4	Extension.
16	Cutchaleaswarer Agrarum.	G. Govinda Charry ...	27	6"	1½"	1"	1	65	7	8	
17	Linga Chetty Street ...	Iyasawmy Chetty ...	254	7"	1½"	1"	2	31	0	7	
18	Do do ...	C. Michie Smith, Esq. ...	...	...	3"	1"	11	368	13	5	
19	Popham's Broadway ...	Messrs. Oakes and Co. ...	...	7"	2"	3-1" 1-¾"	4	492	6	6	
20	Do do ...	Do ...	...	7"	1½	1-¾"	1	29	14	7	Extension.
21	Gooroovappen Street ...	Sashachellavasoodava Pillay.	15	4"	1½"	2-1" 1-¾"	3	132	7	5	
22	Do do ...	Streenevasaloo Chetty ...	9	4"	1¼"	1"	2	93	11	2	
23	Do do ...	B. Venkatasawmy Chetty ...	40	4"	1½"	1"	2	54	8	9	
24	Do do ...	Ramanoojiah ...	13	4"	1½"	1"	1	25	4	0	
25	Do do ...	B. Vencatasawmy Chetty ...	40	4"	1"	¾"	1	8	12	3	Extension.
26	China Bazaar Road ...	Messrs. West and Co. ...	...	2½"	1½"	1"	1	53	13	10	
27	Aucharappen Street ...	P. Vijiarunga Moodelly ...	54	4"	1"	¾"	1	5	0	9	
28	South Beach ...	Napier Battery ...	...	4"	1½"	1"	2	625	2	11	
29	Do do ...	Light House Battery ...	...	4"	1½	1"	1				
30	Gooroovappen Street ...	C. Gooroosawmy Naidoo ...	...	...	...	...	...	29	7	4	
31	Murcar Lubbay Street ...	Shaick Ismail ...	45	7"	1"	1"	1	48	4	6	
32	Do do ...	C. Alyar Sahib ...	3¼/37	7"	1½"	1"	1	72	8	5	
33	Odacal Street ...	Parthasarathy Chetty ...	10	6"	1"	1"	1	54	12	1	

List of House connections made in 4th Division.

1	General Farren's Road ...	Meyah Road ...	9	4"	1½"	1-1" 1-1½"	2	145	12	6	
2	Strachan's Road ...	P. Rungashayee Naidoo ...	...	4"	2"	2-1½"	2	760	3	9	For laying St. main & service Pipes.

PUBLIC WORKS AND CONSERVANCY DEPARTMENTS.

List of House connections made in 5th Division.

Number.	Names of Roads or Street.	Names of Parties.	Door No.	Size of Pipe in Street.	Size of connection Pipe.	Size of discharge Cock.	Number of discharge Cock.	Amount.			Remarks.
1	D'Mellow's Road ...	Spinning and Weaving Mills, Choolay ...	...	...	2"	...	...	253	1	4	Extension.
2	Poonamallee Road ...	South India Railway ...	...	27"	3"	1"	12	904	10	1	
3	Do. do. ...	P. Chengulray Chetty ...	52	22"	1¼"	¾"	3	30	12	7	
4	Sawmy Pillay Road ...	Singaravaloo Moodelly ...	30, 56 & 51	3"	1¼"	1"	4	289	7	4	
5	Choolay Bazaar Street ...	Mooroogappa Chetty ...	14	27	1¼"	1"	1	81	6	3	
6	Pantheon Road ...	Ahamedoolla Saib ...	14	14"	1¼"	1"	1	69	9	3	
7	Harris Road ...	Aboroolum Pillay ...	3 &4	27"	2"	1"	1	17	7	8	
8	Do. do. ...	Mahomed Hoossain Saib ...	4-4	27"	2"	1½"	1	102	3	8	
9	Mookathal Street ...	Jannaky Ammall ...	31	...	1½"	1½"	1	87	3	4	
10	Avadanum Paupier Street.	Satagopooloo Naidoo ...	83	4"	1½"	1"	2	21	7	2	
11	Do. do. ...	Do. do. ...	83	4"	1¼"	1"	1	10	1	0	Extension.
12	Jeremiah's Road ...	Andalammall ...	2	7"	1¼"	1"	1	85	12	8	
13	Narrayana Naick Street ...	Moosanaena ...	...	7"	1¼"	1"	1	69	6	4	Mosque.
14	Clemens' Road ...	Miss Wright ...	8	27"	1½"	1¼"	1	296	13	1	
15	Poonamallee Road ...	Ice Manufactory ...	...	27"	3"	...	...	506	4	2	

List of House connections made in 6th Division.

1	Mount Road ...	H. H. Nabob Ahmed Onnissa Begum Sahiba ...	20, 1&1	7"	1½"	1½"	1	69	12	...	
2	Do do ...	Lawrence Asylum ...	...	7"	1¼"	1-1" 3¾"	4	156	6	10	Extension.
3	Do do ...	Rajaha Easwara Dossa Dyamutha Bahadoor ...	...	7"	1½"	1½"	1	45	14	9	
4	Marshall's Road ...	E. J. Ricketts, Esq. ...	7	18"	1¼"	1"	1	57	9	5	
5	Harley's Road ...	Mr. J. H. Spring Branson ...	...	42"	1½	5⅝	5	255	6	1	
6	Orme Road, Kilpauk ...	Manicca Chetty ...	...	7"	2"	2"	Val.	314	1	7	
7	Kilpauk Garden Road ...	Singaravaloo Dasigar ...	17	7"	1¼"	1¼"	1	64	3	8	
8	Patter's Garden Road ...	Mr. A. M. Saunders ...	...	14"	2½"	2"	Val.	114	6	8	
9	Wood's Road ...	Madras Club ...	...	14"	4"	1"	22	912	8	8	

List of House connections made in 7th Division.

1	Pycroft's Road ...	P. Appasawmy Chetty ...	98	7"	...	...	...	91	2	4	
2	Do do ...	Soobrayaloo Naidoo ...	13	12"	1½"	1"	1	59	1	11	
3	Do do ...	Lutchooman Prasad Lalah's ...	20	12"	1½"	¾"	1	69	14	8	
4	Do do ...	Annamalay Chetty ...	60	7"	1½"	1"	4	197	12	3	
5	Do do ...	Do do ...	59	7"	1½"	¾"	1	29	6	10	Extension.
6	Mount Road ...	Mothi Mahal ...	186	7"	1½"	1"	1	171	11	10	
7	Do do ...	Do ...	186	7"	1"	1"	2	62	11	4	Extension.
8	Singalacharry Street ...	Nagojee Row ...	5	7"	1¼"	1-1' 1-⅝"	2	46	9	5	
9	Do do ...	Rama Row ...	39	7"	1½"	1"	1	90	7	10	
10	Do do ...	Kistna Row ...	42	7"	1½"	1"	1	92	15	11	
11	Tholasinga Peroomal Covil	Ragavooloo Naidoo ...	59	7"	1½"	1"	1	70	2	2	
12	Tharady Street ...	G. Ramakistniah ...	24	7"	1½"	1"	2	106	15	4	
13	Vullaloo Agrarum ...	Hajee Mahomed Badsha Sahib.	...	6"	...	...	..	1,000	0	0	For laying street main and service pipe.
14	Do do ...	Govurthen Doss ...	1, 3	6"	1½ 1½	1"	4	196	7	0	
15	Do do ...	Damodra Doss ...	24	6"	1½"	¾"	2	20	3	9	
16	Sammy Naick Street ...	M. Poolliah ...	...	6"	1½"	1"	2	73	7	6	
17	Do do ...	Narrayanasawmy Moodelly	83 85 53	3"	1¼"	1"	3	200	14	3	
18	Do do ...	Do do ...	83	3"	1"	⅝"	1	14	5	5	Extension.

List of House connections made in 8th Division.

1	St Lazarus Chapel ...	Mahommed Ally Ebramjee Sahib.	...	5"	1½"	1½"	1	20	6	5	

The following table shews the number of house services laid each year since the commencement of the water works.

Divisions.	73-74.	74-75.	75-76.	76-77.	77-78.	Nine Months 1878.	1879.	Total.
1st ...	...	...	...	...	...	1	...	1
2nd ...	14	36	15	9	9	29	80	192
3rd ...	7	21	9	8	6	8	33	92
4th ...	2	...	...	1	...	1	2	6
5th ...	16	12	7	11	...	6	15	67
6th ...	7	3	13	3	...	2	9	37
7th ...	12	11	1	6	1	9	18	58
8th ...	...	...	1	1	...	1	1	4
	58	83	46	39	16	57	158	457
			Famine Years.					

REPAIRS.

Repairs were made during the year to 41 house services.

QUANTITY AND QUALITY OF SUPPLY.

The annexed table shews the quantity of water drawn during each month in the year.

January	...	...	12,713,000
February	...	...	11,038,000
March	...	...	12,759,000
April	...	...	11,004,000
May	...	...	12,228,000
June	...	...	11,738,000
July	...	...	14,507,000
August	...	...	13,952,000
September	...	...	14,175,000
October	...	...	12,086,000
November	...	...	9,892,000
December	...	...	8,687,000
Total Cubic feet...		...	144,779,000

This gives an average consumption per month of nearly 12,065,000 cubic feet. The water may be said to be used by a population of 200,000.

The average consumption per day may be taken as $\frac{12,065,000}{30} = 4,02,166$ cubic feet or per person $\frac{4,02,166}{2,00,000} = 2{\cdot}0$ cubic feet $= 12\frac{1}{2}$ gallons per person per day. The consumption during last year was taking the same population 13 gallons per head.

The following analysis of Red Hills water by the Chemical Examiner shews an urgent call for the improvement of supply.

Analysis of Red Hills Water.

	(1) Water taken from Cistern fountain at High Court.	(2) From 4 tap fountain in new Street St. Thome.	(3) From Vijianagarum Maharajah's fountain in Mount Road.	(4) From 4 tap fountain at Junction of Pycroft & Triplicane High Rd.	(5) From the fountain of pipe discharging Red Hills Lake.	(6) From Masonry Shaft Cistern.	(7) From Basin, Red Hills 1878.	(8) From Masonry Shaft Cistern 1878.
Total solids grammes per litre ...	0·202	0·200	0·150	0·190	0·230	0·170	0·250	0·270
Volatile „ „	0·050	0·090	0·030	0·060	0·110	0·040	0·065	0·085
Sodium Chloride „ „	0·06435	0·06435	0·0614	0·0665	0·06727	0·06435	0·064	0·064
Total Hardness (Clark's Scale) ...	3°·5	3°·5	3°·5	3·85	3°·85	3°·5	4°·3	3°·9
Permanent „ „ ...	2°·8	2°·8	3°·1	3°15	3°·5	2°·8	1°·3	1°·5
Free Ammonia Millegrammes, per litre....	0·40	0·200	0·40	0·4	0·64	0·48	0·12	0·12
Albumenoid Ammonia „ „ ...	0·48	0·400	0·40	0·4	0·40	0·64	0·72	0·64
Nitric Acid „ „ ...	0·90	0·75	0·60	0·9	0·75	0·60	0·37	0·60

Remarks.—Deposit in all cases abundant; chiefly vegetable.

Large infusoria abundant.

A few bacteria in No. 3.

In No 5 a few small naematoid worms, careful filteration necessary if used for drinking purposes.

The remarks shew that even when drawn from the Red Hills Lake the water is in much need of improvement by filtration.

Columns Nos. 7 and 8 give the analysis for last year and compared with column Nos. 5 and 6 respectively for this year. It will be seen that the Albumenoid Ammonia is decreasing which is somewhat satisfactory.

The average amount of Free Ammonia and Albumenoid Ammonia in the samples as above given is 0·42 Millegrammes per litre of the former and 0·45 of the latter.

In analyses taken in 1867 of the various supplies to the following towns the worst samples were as follows :—

		Millegrammes per litre.	
		Free Ammonia.	Albuminoid Ammonia.
June 21...	London (New River Company) ...	·015	·084
August 19...	Manchester	·014	·07
September 25...	Edinbrough (Swanston Water) ...	·03	·10
October 3...	Glasgow Loch Katrine	·004	·08
June ...	Thames at London Bridge ...	1·02	·50 to ·59
	and Madras has...	0·42	·45

From the above Madras can congratulate itself that its water supply contains 5 to 6 times as much Albumenoid Ammonia as any of the above water supplies in England and almost as much as the River Thames which receives a large portion of the sewage of London or did at that time.

The question of improving our supply needs serious consideration.

Expenditure in Workshop from 1st January to 31st December 1879.

Particulars.	Value completed works.			Value works in Progress.		
	Rs.	A.	P.	Rs.	A.	P.
Conservancy Contingent	673	15	10	8	3	0
Contingent Miscellaneous	326	4	6	1	5	5
Do. Office Furniture	204	13	5	.....	...	...
Stationery	2	13	11	.....	...	...
Lighting additional Lamps and Sundries	2,062	8	11	14	14	6
Woking the Screw Pile drain	702	6	9	.....	...	...
Maintenance of Fire Engine	1,027	15	7	11	14	3
Dc. of Lighting	25	15	4	.....	...	...
Do. of Avenues	194	12	8	.....	...	...
Do. of Roads	144	2	3	.....	...	...
Do. of Road watering	528	9	11	31	5	10
Do. of Slaughter House	14	1	10	.....	...	...
Do. of Latrines	46	6	7	.....	...	...
Do. of Sewage Farms	86	6	7	.....	...	...
New Shed in Stores	514	11	4	.....	...	...
New Cars	1,973	12	0	.....	...	...
People's Park	1,792	10	4	.....	...	...
Napier Park	342	3	10	.....	...	...
Tools and Plant	12,277	11	5	.....	...	...
Mortuary Department	0	13	6	.....	...	...
Water Works Extension	13,943	14	5	.....	...	...
Repairs to Office Premises	66	5	5	.....	...	...
Government Service Pipe Work	45	14	3	.....	...	...
Private Service Pipe do	14,206	15	4	516	13	1
Private Works	499	0	11	247	11	6
Maintenance of Delivery Channel	1,813	10	4	.....	...	...
Do. of Fountain	2,837	0	0	.....	...	...
Do. of Pipes	1,880	4	1	.....	...	...
Do. of Walkmen's Bungalow	528	4	10	.....	...	...
Do. of Workshop	36	14	9	.....	...	...
Do. of Toll Gates	79	3	7	.....	...	...
Do. Band Stand	5	7	0	.....	...	...
Stroie Account	15	5	2	.....	...	...
(Electric Machine) Lamp Posts	1,055	4	0	.....	...	...
Maintenance of Buildings	1	0	1	40	13	7
New Works and Improvements	4,447	9	11	400	...	...
Conveyance of Night Soil to Manaly	836	2	8	.....	...	...
Maintenance of Main Drain	.....	...	...	101	10	10
Completion of Drainage Scheme	.....	...	..	5	13	2
Working Electric Light	499	1	1	.....	...	...
Total Rupees.....	65,749	10	6	1,370	9	2

The workshop during the year was debited with a sum of Rs. 64,874-4-5, so that the difference between this and Rs. 65,740-0-6+1,370-9-2 or Rs, 2, 236-15-3, is the balance in favor of the workshop or the gain of it had been a private workshop.

J. A. JONES, C, E.
VICE-PRESIDENT,
Madras Municipality.

REPORT OF COMMITTEE ON DISPOSAL OF NIGHT SOIL.

TO THE STANDING COMMITTEE OF THE MUNICIPALITY OF MADRAS.

GENTLEMEN,

With reference to your resolution of 6th August 1879, requesting us to report on the best method of disposing of the night-soil of Madras, and to your resolution of 10th September 1879, referring to us certain papers bearing on the same question and asking us to suggest amendments in the Sections of the Act relating to the removal of night-soil, we have the honor to lay before you the following report:—

1. The subject is one which has not only in a sanitary but also in a financial aspect an importance which can hardly be over-estimated and we have therefore deemed it proper to consider not only the disposal after collection, but the means of collection and what measures might be adopted to keep the night-soil free from deteriorating matters in order to increase its market value.

COLLECTION.

2. We find that up to July the separate collection of night-soil was confined to only one division of the Municipality, viz., the 6th Division and that since that time it was being gradually introduced into the Second and Third Divisions.

3. At the time during which this part of our subject was under consideration the separate collection had been fully introduced into only one Ward of these latter populous Divisions, viz., the South Ward of the Third Division.

4. The Sixth Division being a suburban one and the South Ward of the Third Division being a most characteristic one of a crowded portion of the town including as it does Merchants' Offices, Schools, Bazaars, Markets, East Indian and Native Houses, we have had sufficient data on which to found our conclusions as to the collection.

5. The population of Madras at present amounts to 4,00,000 and this population is scattered over the large area of 27 square miles.

6. We would remark in passing that it has been a constant error and source of expense to treat Madras as if it were a large city. This is far from the case and it might better be described as a few densely populated villages at some distance from each other and that therefore in all sanitary regulations the suburban and sparsely populated should be treated apart from populous parts.

7. We have made this remark in this part of our report so that it may be borne in mind when considering what makes the expense of collection so large in some parts as compared with others.

8. We have considered the methods which are at present in use or being brought into force in the various divisions of Madras, which, in the suburban divisions are briefly as follows:—

In divisions such as the 1st, 4th, 6th and 8th where the houses are not closely ranged together except at some few places, the system in force or to be used is that known as the "pail system." By this system all night-soil and offensive matter is retained in (the houses in) covered pails from which it is removed once in 24 hours by covered iron carts. This in the 6th Division is done at night. This system is in use in England in crowded towns such as Rochdale with the slight difference that the pails are also removed and replaced by others, which, while no doubt a more satisfactory system than the other, is, of course, much more expensive. In such

divisions as the 6th there is a large quantity of urine and other liquid matter put in the pails and this, of course, adds to the cost which we find in the 6th Division to be per month as follows:—

FOR HOUSE CONSERVANCY.

		Rs.	A.	P.
2	Duffadars	24	0	0
5	Peons	45	0	0
12	Sweepers	72	0	0
7	Single Bullocks	91	0	0
2	Pairs of Bullocks	39	0	0
2	Carts (contractors)	4	0	0
& 7	Carts (Municipal)	0	0	0
		275	0	0

9. The number of houses visited is 347, including one large asylum and the contents of 25 Latrines visited daily by 3,300 people are also removed. On the 4·16 square miles in this division there are only 1,207 rateable houses that is houses above a value of Rs. 24 per annum, and probably no house below this value has a latrine. We may therefore say that out of these 1,207 houses we collect from 347 houses. The average population for these houses is about 12 per house so that the total population served in the collection of night-soil would be

$$12 \times 347 = 4{,}164$$
$$\text{Using Latrines} = 3{,}300$$
$$\text{Total} = 7{,}464$$

the result then is this; that out of 19,000 people the night-soil from less than half is collected and the cost per head $\frac{\text{Rs. } 275}{7{,}464} = \frac{\text{As.}}{0\text{-}6}$ per month or $\frac{\text{As.}}{7}$ per annum, but if the actual house conservancy be taken separate from the latrine conservancy the proportionate cost is about 4 to 1 so that the cost per person per annum in the former is 5·7 As. per person and the latter 1-4 annas.

10. The total cost per month for 6th Division is Rs. 275 or Rs. 3,300 per annum. If the other suburban divisions be taken in proportion we find the expense will be for each,

Division.	Population.	Rupees.
6th	19,000	3,300
1st	65,000	11,220
4th	9,700	1,600
8th	41,400	7,260
	1,35,100	23,380

After this expenditure, taking the results of the 6th Division as correct there would still be uncollected the night-soil from 92,000 people.

11. We see no reason to doubt this fact; we are therefore fully convinced that to collect night-soil in such divisions except in such parts of these divisions where the houses are closely adjoining or at some short distance from each other is a waste of money without any advantage.

12. In such divisions the night-soil is used to much better advantage when placed in cocoanut and betel topes and other such vegetation, and to collect it is only to take away from where it is useful to some place where it may not command a ready sale and therefore become a nuisance.

13. In richer neighbourhoods where people do not cultivate, it may, no doubt, be advantageous and save trouble for the night-soil to be removed, but we feel that the burden of

such removal should fall directly on the occupier and the system of private scavengering which fell through owing to the introduction of the present Municipal Act is one which may very properly be resumed where persons are willing to pay for it, and we have introduced a new clause in the sanitary regulations which gives the President the power to make such arrangements when required and the power to levy a cess for such extra conservancy.

14. The collection in the town divisions is carried out on a different principle to that adopted in the suburban ones.

15. The actual collection is done by men who having moveable buckets on small hand-carts pass through each street and the private scavengers deposit the night-soil in the buckets. These buckets are then taken to some central place where there is a lorry which receives 8 buckets and the men putting new buckets on their carts start off again. Each man fills 4 buckets of 18 gallons each which is the collection from about 1,440 people.

16. The lorry with the 8 buckets is taken away by road to the depot which is two to three miles from Black Town.

17. This is the present system in Black Town, but we believe that as soon as arrangements can be made boats will be employed which will reduce the staff of bullocks and lorries to what is shewn in the following as furnished by the Vice-President of the Municipality.

Collecting.	15 Lorries...	... at Rs.	24 =	360	0	0
	100 Coolies working 438 buckets ...	... „ „	6 =	600	0	0
	24 Peons	... „ „	7 =	168	0	0
Loading.	2 Maistries...	... „ „	7 =	14	0	0
	12 Men	... „ „	6 =	72	0	0
Conveying.	22 Boatmen for 11 Boats	... „ „	7 =	154	0	0
Unloading.	18 Men	... „ „	6 =	108	0	0
	6 Women	... „ „	3-8 =	21	0	0
				1,497	0	0

This will be the total cost of collection and conveyance to Mannally Depot a distance of three miles north of Black Town.

18. The population of Black Town is 1,24,000 so that the cost per person is

$$\frac{1517 \times 16}{1,24,000} = \frac{24,272}{1,24,000} = 0{\cdot}2 \text{ As. per person per month or } 2{\cdot}4 \text{ As. per person}$$

per annum. This is just one-third the cost in the suburban divisions. There can be but a small part of the population of Black Town from which the night-soil is not collected as from the crowded nature of the city and the very small amount of garden ground there is little opportunity of disposing of the night-soil except by Municipal agency. The total population is therefore supposed to furnish night-soil. It is also to be remembered that there is a large daily accession to the Black Town population by persons from other districts who return to their homes at night and are therefore not included in the 1,24,000.

19. Taking the proportionate cost for the other populous divisions, viz., the 5th and 7th we would have the total cost for the separate collection of night-soil as follows :—

Division.	Population.	Rs. per month.	Per Annum.
2nd & 3rd.....	1,24,000.....	1,517	18,204
5th	65,000.....	800	9,600
7th	70,000.....	860	10,320
	2,59,000	3,177	38,124
add as shewn before for suburban divisions...	... ..	...	23,380
			61,504

As we have before pointed out a considerable portion of this amount is being or will be expended on portions of the Municipality which are little benefited by the system and we think

that probably the populous places in the 1st, 4th, 6th and 8th Divisions might be worked annually at the cost following:—

1st.....	5,000
4th.....	1,000
6th.....	1,000
8th.....	2,000
Total...	9,000

so that the total cost would then be only Rs. 38,124 + 9,000 = Rs. 47,124.

20. We generally approve of the arrangements now in force for the collection, and the carts and lorries do not seem capable of much improvement.

HOURS OF COLLECTION.

21. We do not deem it necessary that the collection should take place and be finished as early as the hours mentioned in the Act. Were such hours strictly adhered to much inconvenience would result, and in re-drafting the sanitary regulations we have omitted any specified hours and left such hours to be fixed by the Standing Committee. It is also necessary to do the work at the time most convenient to the people and so that it may not be necessary to have a second collection which would add very considerably to expense. We have considered the remarks of the Standing Committee on their minute of 10th September last in which some of the members desire to see a second removal of night-soil carried out. We are not prepared to recommend the adoption of such measure. It is not except in small houses necessary on sanitary grounds. The extra expense which would be about Rs. 10,000 yearly for the populous parts of the city is large and extra plant would have to be provided for the purpose. In order, however, to put persons to as little inconvenience as possible, we propose that for two hours in the afternoon (which may be fixed by the President and Standing Committee) buckets or carts should be stationed at certain places such as public latrines where the house sweepers could bring any night-soil which was found in too great excess in the private house latrines.

DISPOSAL OF NIGHT-SOIL.

22. With such observations on the collection we have now arrived at the point on which more particularly we were asked to report.

23. We have had placed before us by Dr. Bidie some papers shewing the manner in which the rubbish of Salford (Manchester) by passing through a closed iron cylinder at a high temperature is converted into charcoal which is then mixed with night-soil, the result being a perfectly inodorous compound and a valuable manure. We are not able to say whether the sweepings of Madras could be treated in this way, but we fear that from roads not paved and with street sweepings of a very different composition the same success might not attend the operation here as in England. It might, however, be ascertained what success the Salford Company have had to date and whether any Company would venture to come to Madras.

24. We have had our attention called to the comparatively small amount realized by the sale of rubbish and night-soil, and also the failure of Messrs. Shaw and Winch to satisfactorily make manure, from the night-soil delivered to them which was unmixed with rubbish. We have no hesitation in saying that one obstacle to a better sale of rubbish and to the greater use of night-soil after collection is the large amount of sand and debris collected therewith. We do not well see in what way the "material," of the rubbish could be improved except by having a separate collection of the sweepings deposited in dust-bins and those from streets, but we doubt whether the extra expense involved would be repaid by an increased sale of rubbish. Madras from its metalled and unpaved roads must fall short in this respect of towns where the streets are totally paved.

25. With regard to the collection of night-soil there should be no difficulty in provid-

ing for its collection separately from latrines which for the most part in Madras are floored with sand and we consider that such night-soil should be kept altogether apart from the night-soil collected from houses where no sand is used. An improvement in latrines is, we think, urgently called for, and we would point out that were pits formed into which to defacate and these covered from the rain and the night-soil as deposited covered with ashes a great improvement would result. The latrines would be much less offensive and the night-soil of some value which it is not at present.

26. The occupiers of houses should be invited to take ashes from the nearest dust-bin and use them in their houses and this we have already spoken of.

27. In order to enable the night-soil thus collected to have a ready sale it is most necessary that it should be taken as near the purchaser as possible. The night-soil from Black Town, Madras, is at present conveyed to Manally which is two miles north of the Cochrane Basin.

28. When the night-soil was collected in open carts along with the rubbish it was deposited in heaps on this ground alongside a branch canal off the Cochrane Canal and from these heaps the ryots used to dig out the night-soil and being mixed with a small quantity of rubbish was able to cart it away in their basket carts. Since the separate collection in closed carts was commenced the night-soil has been in a too liquid state for the ryots to cart away readily and thus the sale has fallen off. This difficulty can be readily overcome. The night-soil should be deposited in pits if the soil is suitable, and if not so, enclosures three or four feet high with mud walls should be made above ground in which the night-soil should be deposited in layers. After the first two feet have been filled three or four inches of ashes should be laid over and then the remainder of the pits or enclosure filled and covered by six inches of ashes or clean earth over the top. These pits must be kept away from water. The night-soil from pits such as these, kept six months and then opened would be found very valuable and easy of transport.

29. The Municipality possess a large tract of land near Manally and hence the reason of selecting this place, but we venture to suggest whether the place where the Sattankadu Camp stood might not be a more favourable position for the sale of night-soil and more adapted for storing it than the low lying lands of Manally.

30. To the South of Madras we would select some place in the centre of Mylapore where there is a large amount of cultivation especially requiring a large quantity of night-soil and other manure. The Government Farm could utilize a small quantity of the night-soil. Some place in this direction would be convenient for ryots near Sydapet and the Mount.

31. To the west we would propose Kodumbaukum as it is near the town, near the Railway and comparatively central for the Mount and Poonamallee Districts and others west of Madras. We believe that there has been an objection taken by the Railway authorities to a night-soil depot close to the Railway, but we venture to state that no nuisance would arise if the manner of storing which we propose were adopted and we also think that night-soil collected as it is in Black Town in pails might be conveyed without any nuisance by train to a siding at Kodumbaukum at small cost, and we consider this a matter worthy of further enquiry by the Commissioners.

32. It will be seen that where water carriage is available we have selected places near such means of communication, and where it is not available near a Railway. We believe that either of these means is cheaper than the conveyance for long distances by cart.

33. The Collector of Chingleput District might point out other places where a sale might be found for night-soil and publish the sale among the surrounding villages. We have evidence that the ryots fully appreciate the advantages of good manure and would readily buy were it brought near them at a reasonable price and fit for transit. Government or the Board of Revenue should also be asked to assist the Commissioners in the disposal of night-soil by instructing their officers and subordinates in the various districts to publish the places of sale and to advise the ryots of the great increase of certain crops by a discreet use of the same.

34. We have had before us the advisability of removing the night-soil and depositing it at some distance at sea. At present no such course is possible; because the few and expensive means of loading such material and the probable nuisance resulting from any accident in loading into the boats are obstacles too great to be readily overcome at present. When the Harbour is completed matters will be different, but we fancy that loading in an enclosed Harbour would then prove a nuisance to the surrounding vessels. Even were such disadvantages not before us we would hesitate to recommend such a course as throwing away material, which, though perhaps, not of very great value at the present time must in time become so when the ryots are aware that it can be cheaply purchased and easily conveyed to their lands.

35. We have before alluded to the manufacture of portable and inoffensive manure made from night-soil by Messrs. Shaw and Winch, but, which from the large quantity of sand in it has not given satisfactory results.

36. There can be no doubt that if night-soil is delivered in a pure state it can be treated in such a way as to provide a cheap and portable manure, and we do not think that the former failure when its cause is known will deter others from attemping its manufacture. We therefore advise that enquiries be made as to whether any one is willing to come forward and invest capital for this purpose and in order to offer some inducement, the Municipality might provide land and deliver the night-soil free of charge during some length of time for experiments and this should be a source of income to the Municipality eventually.

SANITARY REGULATION.

37. We incorporate in this report a set of revised sanitary regulations with which we would replace Sections 296 to 309 of Act V of 1878. Some of the sections are in all respects similar to sections in the present Act, but as we thought it advisable to alter the order of some we re-arranged and revised all this part so that the revised sanitary regulations will be complete in themselves as an amended Act.

38. The chief alterations which we have proposed are these:—(1). That only in "populous" parts of the city will the separate collection of night-soil be retained as in suburban parts there is no necessity for it and the expense of collection is very great and incommensurate with any possible benefit to be derived therefrom. (2). That where separate collection of night-soil is not retained the President shall have power to arrange for the collection of night-soil from privies, latrines, &c., erected under Sections 262, 272, 273, and 274 and to collect fees for such service. (3). That garden and stable refuse will not necessarily require to be removed by the Commissioners. This was so in the old Act and worked well. Stable manure can usually be sold and at present the carts are overburdened with it and the dust-bins filled with it—garden refuse is not very offensive and may well be utilized by the proprietor. These therefore have been omitted. (4). The use of dust-bins has been limited and more particularly described. (5). Night-soil will be collected in separate carts and it will be penal to put other matters in such cart, except in the way of deodorants. This is to prevent the deterioration of night-soil and to effect for it a ready sale. (6). The hours for the collection of night-soil has been left to be fixed by the Standing Committee.

GENERAL SANITARY REGULATIONS.

The part of the Act proposed to be repealed is Sections 296 to 309 inclusive.

The words "populous parts of the City" shall be held to mean such parts as the Governor-in-Council may, on the recommendation of the Standing Committee declare to be "populous."

1. The President shall cause the streets and foot-ways to be regularly swept and cleansed and the dust, dirt, ashes, rubbish and filth of every sort found thereon to be collected and removed.

2. The President shall provide suitable and sufficient means for the removal of all dust, dirt, ashes, kitchen refuse, filth and rubbish from the streets and houses of the City.

3. The President shall provide in convenient sites suitable and sufficient depots or places for the deposit of all the matters mentioned in the preceding Section and shall give notice of such provision.

4. The President shall provide in the streets of the City suitable and sufficient dust-bins for the temporary deposit of dust, dirt, ashes, kitchen refuse, and other in-offensive matter, (excepting building, stable and garden refuse which shall be removed by the owner thereof) and shall give notice of such provision.

Whoever after notice of such provision has been given, deposits any of the said matters in any street, pavement or verandah of any house, or any ground between the house and the street or any public quay, jetty or landing place or any part of a river bank, whether above or below high water mark, shall be liable to a fine not exceeding Rupees ten for each offence.

5. The President shall provide suitable and sufficient covered vehicles, carts or means for the separate removal of night-soil and other offensive matter for the houses in the populous part of the City and shall give notice of such provision.

The President shall provide in convenient sites suitable and sufficient depots or places for the deposit of the matters mentioned in this Section and shall give notice of such provision.

Whoever after such notice deposits any night-soil or offensive matter in any dust-bin or in any vehicle, cart or vessel not covered or in any Municipal cart not intended for that purpose, or in any manner otherwise than directed, shall be liable to a fine not exceeding Rupees ten for each offence.

Whoever after such notice deposits any matter other than those matters referred to in this Section in any vehicle, cart or vessel, provided under this Section for the separate removal of night-soil and other offensive matters shall be liable to a fine not exceeding Rupees ten for each offence, but no person shall be liable to such fine by reason of mixing ashes with night-soil or other offensive matter, in the manner of a deodorant.

6. The President may call by notice on all occupiers of houses within the populous parts of the City to provide within a period to be specified in such notice, moveable private receptacles of a kind to be specified in the notice for the temporary deposit in their houses of night-soil or other offensive matter.

7. After the expiration of such period, the President may provide such a moveable private receptacle for any occupier, who has failed to comply with the directions of the notice, and may recover the cost of such receptacle from such occupier as if it were a tax to be collected under this Act.

8. The President with the concurrence of the Standing Committee may appoint the time or times daily before which such moveable private receptacle shall be in readiness on the premises and screened from public view for the contents thereof to be removed by the Municipal servants.

Every occupier who after such notice fails to have the night-soil or other offensive matter of his house collected in such receptacle and ready for removal, or who deposits any other matter with the exception of ashes which may be used as a deodorant in such receptacle shall be liable to a fine not exceeding Rupees ten for each offence.

Every occupier of a building or land, who keeps or allows to be kept for more than twenty-four hours, or otherwise than in a proper receptacle, any night-soil,

rubbish, or other offensive matter in such building or upon the roof thereof or in any out-building, yard, pavement or verandah attached to or belonging to such building, or on such land, or neglects to employ proper means to remove the filth from such receptacle and to cleanse the same, in the manner directed by the President, or fails to comply with any requisition of the President as to the construction, repair, paving or cleansing of any latrine in his house or belonging thereto, shall be liable to a fine not exceeding Rupees fifty, for each offence and an additional fine not exceeding Rupees ten for every day after conviction for such offence during which the offence continues.

10. In such places as do not come within the limits of populous places as declared by the Governor-in-Council, the President may, with the sanction of the Standing Committee undertake the Conservancy of private latrines erected under the provisions of Sections 262, 272, 273 and 274 of Act V of 1878.

11. The President shall provide similar means to those mentioned in Section 5 for the removal of night-soil and other matters found in such latrines.

12. The President shall, with the concurrence of the Standing Committee, fix the rate to be paid for such Conservancy and such rate shall be in addition to any other tax or rate imposed or to be imposed under this Act.

13. Such rate shall be collected monthly and be paid in the case of a latrine erected under Section 262 by the persons receiving the rents for the Parcherry to which the latrine belongs, and under Section 272 from the occupier or owner of the property to which such latrine is attached and under Section 273 by the employer of the persons using such latrines and under Section 274 by the owner or manager of such market.

14. Such rate shall not exceed in the case of each latrine under Section 262, one anna per hut per month, and under Section 272, two per cent. on the monthly rental, under Section 273, R. 1-4-0 for each twenty men employed and for a greater number in a similar proportion and under Section 274 the rate shall be Rs. 4 for a market of the first class, Rs. 3 for a market of the 2nd Class, Rs. 2 for that of the third Class, and Rs. 1 for one of the 4th Class.

15. Every owner or occupier who allows the water of any sink, drain or privy or the drainage from any stable or place, or any other offensive liquid matter belonging to him or being on his land or in his house or in any house or land occupied by him to run down on, to, or be put upon, any street, or into any drain in or along side of any street, except in such a manner as shall prevent any avoidable nuisance from any such liquid or offensive matter soaking into the walls or ground at the side of the said drain, shall be liable to a fine not exceeding ten Rupees for each offence.

16. All rubbish, sewage, filth and other matters collected by the orders of the President under this Act shall be the property of the Commissioners, and may be sold or disposed of by them as they think proper, and the proceeds thereof shall form part of the Municipal Fund.

17. Whoever, in the removal of night-soil or other offensive matter, uses any cart or receptacle not having a covering proper for preventing the escape of the contents thereof or of the stench therefrom, or slops or spills any such offensive matter in the removal thereof, or does not carefully sweep and clean every place in which any such offensive matter has been slopped or spilled, or places, or sets down in any public place any night-soil or offensive matter whether in a vessel closed or open, shall be liable to a fine not exceeding twenty Rupees for each offence.

18. Whoever puts, or causes, to be put, any earth, dirt, ashes, garden, kitchen, or

stable refuse, broken glsss, earthenware, rubbish or night-soil into any sewer or drain belonging to the Commissioners or into any drain communicating therewith, shall be liable to a fine not exceeding fifty Rupees for each offence.

This Section shall not apply to any sewer, or drain which the President by public notification declares to be intended for the reception of night-soil.

39. We have carefully considered these regulations and those we propose will, we believe, while lessening to some extent the labor at present imposed on the Municipality, not tend to depreciate the measures adopted for the sanitation of the town while at the same time the value of the night-soil will be much greater.

We have the honor to be,
Gentlemen,
Your most obedient Servants,

V. KRISTNAMA CHARRIAR.
G. BIDIE, M.B.
W. R. CORNISH, F.R.C.S.
W. E. DHANAKOTI RAJU, M.D.
C. BENSON, M.R.A.C.
J. A. JONES, C.E.

December 1879.

APPENDIX V.

VITAL STATISTICS.

Tables I to IX relate to Births.
„ X to XXXI „ Deaths.
„ XXXII „ Births and Deaths.

BIRTHS.

The number of births registered during the year was 16,629 as here particularized :—

Caste.	Born-Alive.			Still-Born.			Total.		
	M.	F.	T.	M.	F.	T.	M.	F.	T.
Europeans	63	71	134	2	1	3	65	72	137
East Indians	216	174	390	5	5	10	221	179	400
Native Christians	345	348	693	7	2	9	352	50	702
Hindus	7,096	6,224	13,320	155	142	297	7,251	6,366	13,617
Mahomedans	897	827	1,724	27	22	49	924	849	1,773
Total...	8,617	7,644	16,261	196	172	368	8,813	7,816	16,629

From these figures the following proportions of number born-alive and still-born to the total number are deduced :—

	Males.	Females.	Total.
Born-alive	... 51·82	45·97	97·79
Still-born	... 1·18	1·03	2·21
Total...	53·00	47·00	100·00

The proportions give 9 boys to 8 girls.

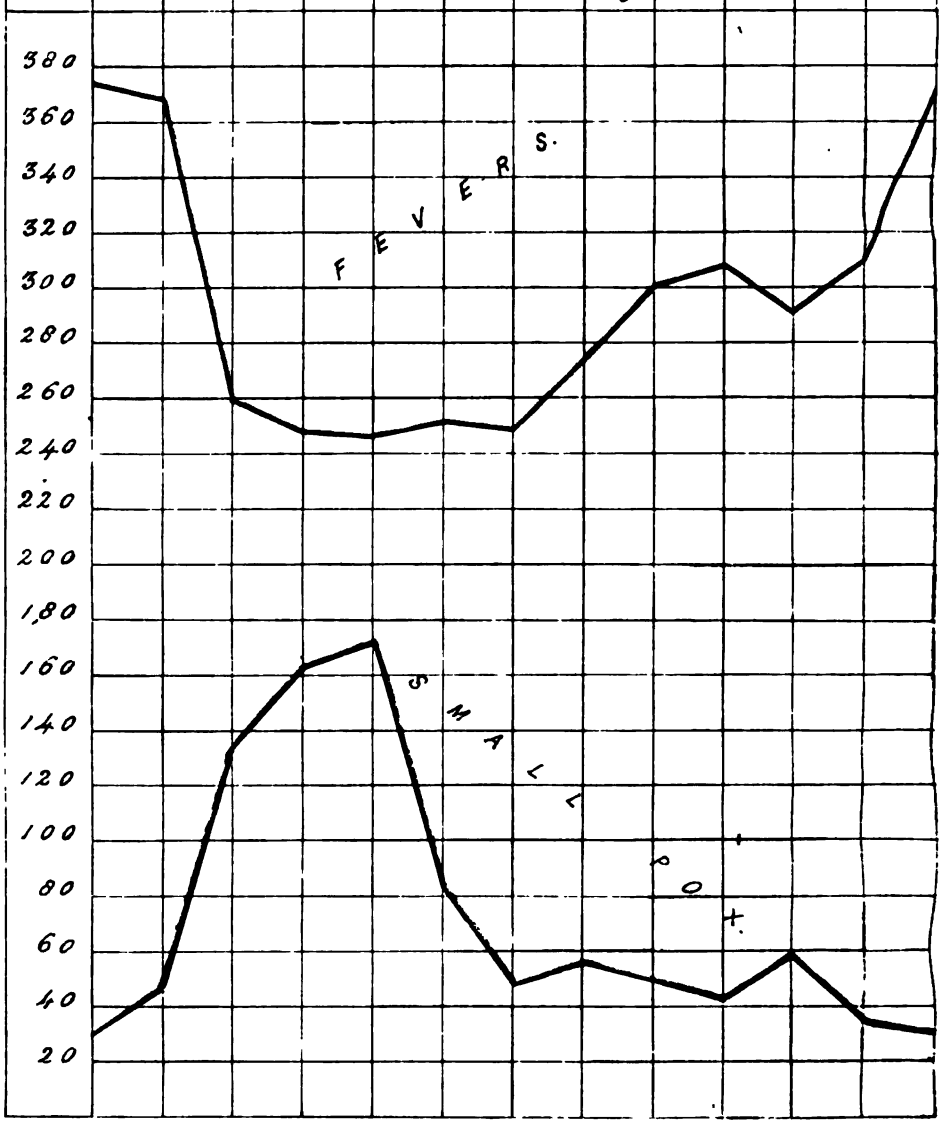
The number registered in 1878 was 15,104, being less by 1,525, the proportions being very nearly the same :—

	In 1879.	In 1878.
Born-alive	97·79	... ...97·74
Still-born	2·21	... ... 2·26
Males	53·00	... ...52·16
Females	47·00	... ...47·84

The year 1879 stands foremost as to the number registered. Since 1876 there has been a steady advance in the number.

1876.....:11,823
1877.....14,384
1878.....15,104
1879.....16,629

	January	February	March	April	May	June	July	August	September	October	November	December
Fevers	368	259	247	245	251	248	272	300	307	291	309	368
Small Pox	46	134	162	171	82	47	55	49	42	58	34	30



LITHOGR BY ROSS, BROTHERS

indicating a more efficient management in the Registration Department as well as a better acquaintance with the law on the part of the public. Daily inspections by Registrars, public notice by beat of tom-toms and a few prosecutions for neglecting to register, appear to have effected a more perfect registration of births.

Of the 16,629 births 1,391 are from Hospitals, the Lying-in-Hospital having returned 1,363, of which 36 were still-born.

The ratio of the total number of births to 1,000 of population is 41·8, those in the several Divisions being—

	Population.	Births.	Ratio per 1,000.
1st Division...	65,121	3,456	53·0
2nd „ ...	73,738	2,464	33·4
3rd „ ...	52,545	1,906	59·4
4th „ ...	9,791	458	46·7
5th „ ...	65,491	2,154	32·9
6th „ ...	19,390	915	47·1
7th „ ...	69,568	2,386	34·2
8th „ ...	41,482	1,499	36·1
Hospitals ...	426	1,391	...
Total...	397,552	16,629	41·8

DEATHS.

The past year was the healthiest since 1872, the number of deaths registered being only 13,803, while the average of the ten previous years (excluding 1877 as being abnormal) is 14,061. The only drawback was the prevalence of Small-pox and Fevers, the deaths from which exceeded the average by 1,222 :—

	Small-pox.	Fever.	Total.
In 1879	...910	3,465	4,375
Average of 10 previous years(excluding 1877)	.464	2,689	3,153
Excess in 1879 over average... ...	...446	776	1,222

Fevers prevailed at a much higher rate than Small-pox, but it is remarkable that they rose and fell inversely as is seen in the following diagram, the wave lines showing that when Fevers were on the ascendant, Small-pox declined and *vice versâ*.

There was a large diminution in deaths from Bowel Complaints as compared with those of the preceding year, the numbers being 1,757 and 4,542 severally. Cholera too declined from 85 in 1878 to only 35 in 1879.

The healthiest time of the year was from February to July when the deaths were below the monthly average 1,150, the other months having exceeded it:—

	Below the average.		Above the average.
February	1,064	January	1,272
March	1,023	August	1,234
April	1,072	September	1,238
May	1,025	October	1,229
June	931	November	1,251
July	1,079	December...	1,385
	6,149		7,609

The distribution of the deaths among the several classes and the ratio per 1,000 of population are :—

Class.	Population.	Males.	Females.	Total.	Ratio per 1,000 of population.
Europeans	3,613	59	29	88	24·3
East Indians	12,013	155	146	301	25·0
Native Christians ...	21,441	300	315	615	28·6
Hindus	309,521	5,575	5,544	11,119	35·9
Mahomedans ...	50,964	840	840	1,680	32·9
Total...	397,552	6,929	6,874	13,803	34·7

It is remarkable that almost the same number occurred among the two sexes; but in proportion to the population, the mortality was greater among the Males—the population being 194,676 Males and 202,876 Females, the ratios are 35·6 and 33·9.

Of the 13,803 deaths, only 906 or a little more than 6·5 per cent. occurred in the Hospitals from which it appears that those Institutions are not yet sufficiently appreciated. The Hindus and Mahomedans are, owing to religious and caste prejudices, averse to becoming inmates of hospitals, and, with rare exceptions, object also to European medical treatment even in their own houses, which to a great extent accounts for so much higher death-rates among them than among the other Classes. Comparing the ratio of deaths in hospitals to the total number of each Class with the ratio per 1,000 of population above given, it will be seen that the more freely such Institutions are resorted to, the greater are the beneficial results :—

Caste.	No. of deaths.	No. died in Hospitals.	Percentage of deaths in Hospitals to number of deaths.	Ratio per 1,000 of population.
Europeans	88	38	43·2	24·3
East Indians ...	301	54	17·9	25·0
Native Christians ...	615	72	11·7	28·6
Hindus	11,119	666	6·0	35·9
Mahomedans ...	1,680	76	4·5	32·9
Total...	13,803	906	6·6	34·7

The Sixth Division maintained its pre-eminence for healthfulness, while the First stood in its usual position—the last in the order of salubrity. The aggregate of the ratio of deaths for three years (excluding 1877-78 as being abnormal) indicate the order in which each Division stands, and it will be seen that the Third Division containing Black Town, which is traditionally reputed to be insalubrious, stands third for healthfulness. In the following Statement the Divisions are given in the order indicated by the results ;—

NOTE.—Deaths in hospitals are here excluded.

Divisions.	In 1876-77.	In 1878.	In 1879.	Total.
VI ...	22·4	25·7	13·1	61·2
VIII ...	52·5	37·8	33·0	123·3
III ...	54·7	38·5	32·9	126·1
V ...	61·5	41·4	28·2	131·1
VII ...	56·1	41·0	34·6	131·7
II ...	61·7	44·4	35·2	141·3
IV ...	70·3	48·8	29·6	148·7
I ...	96·5	57·0	36·5	190·0
Total...	62·8	43·2	32·4	138·4

The same remark as in the preceding years, that mortality among children is excessive, applies also to this year. Of the 13,803 deaths, 6,728 occurred among those under 12 years which is very nearly half the number. High as the proportion had been in 1878, namely 44·09 it rose higher still in 1879 till it reached 48·74 which is close upon 50 per cent. of the total number of deaths. The mortality among boys was somewhat in excess, the numbers being 3,449 boys and 3,279 girls which is about 20 deaths among boys to 19 among girls. Of all ages the ratios are as follow :—

	No. of deaths.	Percentage to total number of deaths.
Still-born	368	2·67
Under 1 year	4,361	31·60
1— 6 „	1,925	13·95
6—12 „	442	3·20
12—20 „	598	4·33
20—30 „	1,193	8·64
30—40 „	968	7·01
40—50 „	859	6·22
50—60 „	1,021	7·40
Above 60 „	2,068	14·98
	13,803	

The following Table shows the chief causes of mortality among the children :—

Class.	Small-pox.		Measles.		Fever.		Bowel Com-plaint.		Cholera.		Other Diseases.		Total.		
	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M. & F.
Europeans...	2	...	...	...	2	1	4	4	...	...	10	8	18	13	31
East Indians	7	6	...	1	9	9	8	11	...	...	45	31	69	58	127
Native Christians	11	11	...	...	32	45	17	29	...	...	100	77	160	162	322
Hindus	335	376	2	6	568	611	276	302	6	2	1,639	1,348	2,826	2,645	5,471
Mahomedans	53	58	...	...	67	88	22	38	...	1	246	204	388	389	777
Total...	408	451	2	7	678	754	327	384	6	3	2,040	1,668	3,461	3,267	6,728
Total of Males and Females ...	859		9		1,432		711		9		3,708		6,728		

Of the 2,068 deaths above the age of 60 years, 805 attained 70; 686 lived to 80 and 442 to 90. Women appear to be more tenacious of life than men as out of 15 who died aged 99 years, 11 were females. The following are the particulars of ages under the several races :—

Ages.	Europeans.		East Indians.		Native Christians.		Hindus.		Mahome-dans.		Total.		
	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M. & F.
60 to 70 ...	5	3	9	11	11	18	232	394	49	73	306	499	805
70 to 80 ...	5	2	6	8	19	21	280	250	56	39	366	320	686
80 to 90 ...	1	...	3	2	16	7	205	156	30	22	255	187	442
90 to 94 ...	...	...	...	...	1	...	39	3	22	1	62	4	66
95 ...	...	...	...	...	...	...	11	16	7	9	18	25	43
96 ...	...	...	...	...	...	1	...	2	...	...	...	3	3
97 ...	...	...	...	1	...	...	...	1	...	...	...	2	2
98 ...	...	...	...	...	...	...	4	2	...	...	4	2	6
99 ...	...	...	...	...	...	...	2	8	2	3	4	11	15
Total...	11	5	18	22	47	47	773	832	166	147	1,015	1,053	2,068
Total of Males and Females ...	16		40		94		1,605		313		2,068		

TABLE I.—BIRTHS.

Return of Births among all Classes arranged according to months for the year 1879.

Months.	Born alive. Population.	3,613 Europeans. M.	3,613 Europeans. F.	12,013 East Indians. M.	12,013 East Indians. F.	21,441 Native Christians. M.	21,441 Native Christians. F.	309,521 Hindus. M.	309,521 Hindus. F.	50,964 Mahomedans. M.	50,964 Mahomedans. F.	397,552 Total. M.	397,552 Total. F.	Total of Males and Females.	Still born. 3,613 Europeans. M.	3,613 Europeans. F.	12,013 East Indians. M.	12,013 East Indians. F.	21,441 Native Christians. M.	21,441 Native Christians. F.	309,521 Hindus. M.	309,521 Hindus. F.	50,964 Mahomedans. M.	50,964 Mahomedans. F.	397,552 Total. M.	397,552 Total. F.	Total of Males and Females.	Total Births. Males.	Females.	Males and Females.
January	1879	3	4	13	14	20	16	463	422	45	58	544	514	1,058	...	..	..	...	1	...	8	11	1	...	5	11	16	549	525	1,074
February	„	6	3	12	12	15	23	411	343	44	46	488	427	915	...	...	...	...	...	...	6	6	...	2	6	8	14	494	435	929
March	„	1	1	9	9	13	17	440	337	60	55	523	469	992	1	...	...	...	...	...	12	8	2	3	15	11	26	538	480	1,018
April	„	6	6	13	5	27	31	431	375	56	52	533	469	1,002	...	...	...	...	1	...	10	11	4	1	15	12	27	548	481	1,029
May	„	4	12	21	13	19	28	504	389	62	57	610	499	1,109	...	...	1	...	...	1	15	7	..	1	16	9	25	626	508	1,134
June	„	9	2	24	10	30	24	537	414	70	52	670	502	1,172	...	...	1	1	...	..	19	9	2	4	22	14	36	692	516	1,208
July	„	8	7	16	21	30	37	572	560	99	89	725	714	1,439	...	...	1	1	1	...	7	11	6	1	15	13	28	740	727	1,467
August	„	8	6	24	17	33	38	679	653	117	96	861	810	1,671	...	...	1	1	2	1	18	19	3	1	24	22	46	885	832	1,717
September	„	7	12	21	11	44	29	762	673	39	90	923	815	1,738	1	...	1	1	...	...	17	19	1	1	20	21	41	943	836	1,779
October	„	5	10	15	23	40	32	788	710	84	72	932	847	1,779	...	...	...	...	1	...	18	16	2	...	21	16	37	953	863	1,816
November	„	3	4	23	20	41	35	751	629	83	97	901	785	1,686	...	...	...	...	...	...	17	18	1	5	18	23	41	919	808	1,727
December	„	3	4	25	19	33	38	758	669	88	63	907	793	1,700	...	1	...	1	1	...	13	7	5	3	19	12	31	926	805	1,731
Total...		63	71	216	174	345	348	7,096	6,224	897	827	8,617	7,644	16,261	2	1	5	5	7	2	155	142	27	22	196	172	368	8,813	7,816	16,629
Total of Males and Females..		134		390		693		13,320		1,724		16,261		...	3		10		9		297		49		368		...	16,629		...
Ratio per 1,000 of population.		37·0		32·4		32·3		43·0		33·8		40·9		...	0·8		0·8		0·4		0·9		0·9		0·9		..	41·8		...

Return shewing the average Births in Madras for 10 *previous years ending* 1878 *as contrasted with the Births of the year* 1879.

—	Born Alive.											Still Born.											Total Births.			
	Europeans.		East Indians.		Native Christians and Hindus.		Mahomedans.		Total.		Total of Males and Females.	Europeans.		East Indians.		Native Christians and Hindus.		Mahomedans.		Total.		Total of Males and Females.	Males.	Females.	Males and Females.	Order of precedence according to number of Births.
	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.		M.	F.	M.	F.	M.	F.	M.	F.	M.	F.					
1869	57	52	220	179	1,879	1,609	217	197	2,373	2,037	4,410	2	2	8	8	74	80	18	10	102	100	202	2,475	2,137	4,612	11
1870	53	71	216	185	2,393	2,153	289	249	2,956	2,658	5,614	2	2	8	4	89	65	8	7	107	78	185	3,063	2,736	5,799	10
1871	56	44	177	225	3,874	3,230	414	322	4,521	3,821	8,342	...	...	2	5	89	63	17	17	108	85	193	4,629	3,906	8,535	8
1872	43	38	205	185	3,761	3,113	363	278	4,372	3,614	7,986	...	1	4	1	76	65	16	17	96	84	180	4,468	3,698	8,166	9
1873	39	35	180	169	4,317	3,742	377	306	4,913	4,252	9,165	1	...	4	4	104	76	14	14	123	94	217	5,036	4,346	9,382	7
1874	43	45	174	173	4,934	4,366	581	510	5,732	5,094	10,826	3	3	5	5	141	103	38	29	187	140	327	5,919	5,234	11,153	5
1875	47	43	138	159	4,509	4,054	575	514	5,319	4,770	10,189	2	2	8	4	146	122	38	22	194	150	344	5,513	4,920	10,433	6
1876	53	70	171	175	5,271	4,645	514	490	6,009	5,380	11,389	1	4	8	7	199	147	33	35	241	193	434	6,250	5,573	11,823	4
1877	43	41	159	172	6,794	5,730	598	513	7,594	6,456	14,050	6	5	6	8	135	135	22	17	169	165	334	7,763	6,621	14,384	3
1878	55	41	169	150	6,788	6,235	695	630	7,707	7,056	14,763	3	2	4	1	142	143	22	24	171	170	341	7,878	7,226	15,104	2
Total... ...	489	480	1,859	1,772	44,525	38,877	4,623	4,009	51,496	45,138	96,634	20	21	57	47	1,195	999	226	192	1,498	1,259	2,757	52,994	46,397	99,391	...
Average... ...	48·9	48·0	185·9	177·2	4452·5	3887·7	462·3	400·9	5149·6	4513·8	9663·4	2·0	2·1	5·7	4·7	119·5	99·9	22·6	19·2	149·8	125·9	275·7	5299·4	4639·7	9939·1	..
1872	63	71	216	174	7,441	6,572	897	827	8,617	7,644	16,261	2	1	5	5	162	144	27	22	196	172	368	8,813	7,816	16,629	1
Increase... ...	14·1	23·0	30·1	...	2988·5	2694·3	434·7	426·1	3467·4	3180·2	6597·6	...	...	...	0·3	42·5	44·1	4·4	2·8	46·2	46·1	92·3	3513·6	3176·3	6689·9	...
Decrease ...	...	...	...	3·2	...	...	...	...	...	...	...	...	1·1	0·7	...	...	...	...	...	...	...	...	..	...	...	...

APPENDIX V.

VITAL STATISTICS.

TABLE III.—BIRTHS.

Return of Births among Europeans in each Village of the City of Madras, for the year 1879, arranged according to Months.

Municipal Divisions.	Names of Villages.	EUROPEANS.																										Total Births.
		Jan.		Feb.		Mar.		Apl.		May		June		July		Aug.		Sep.		Oct.		Nov.		Dec.		Total.		
		Born Alive.	Still Born.	Born Alive.	Still Born.	Born Alive.	Still Born.	Born Alive	Still Born.	Born Alive.	Still Born.	Born Alive.	Still Born.	Born Alive.	Still Born.	Born Alive.	Still Born.	Born Alive.	Still Born.	Born Alive.	Still Born.	Born Alive.	Still Born.	Born Alive.	Still Born.	Born Alive.	Still Born.	
1	Tondiarpettah ...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	Washermenpettah	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	Royapuram ...	...	...	...	.	...	...	2	...	1	...	3	...	2	...	4	...	1	...	1	...	2	...	...	...	16	...	16
	Cashmode ...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	Total...	...	...	...	...	...	...	2	...	1	...	3	...	2	...	4	...	1	...	1	..	2	...	...	...	16	...	16
2	Peddoo Naick's Pettah ...	...	...	...	...	...	...	1	...	...	...	2	...	...	...	1	...	...	...	1	...	...	...	...	...	5	...	5
	Big Parcherry ...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	John Pereira's Garden ...	...	...	...	...	...	...	...	...	...	...	...	...	1	...	...	...	...	...	...	...	...	...	...	...	1	...	1
	Total..	...	...	...	...	...	...	1	...	..	...	2	...	1	...	1	...	...	...	1	...	...	...	...	...	6	...	6
3	Moothealpettah	1	...	...	...	1	...	1	...	2	...	1	...	2	...	1	...	5	...	...	...	...	...	...	...	14	...	14
	Uttapaulinm	...	...	..	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	.	...	..	...
	Fort St. George	..	..	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	..	...	..
	Total...	1	..	...	...	1	...	1	...	2	...	1	...	2	...	1	...	5	...	...	...	...	...	...	...	14	...	14
4	Gunpowder Mills... ...	...	...	1	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	1	...	1
	Perambore ...	1	...	1	...	...	...	...	...	...	...	1	...	...	...	...	...	...	...	...	...	...	...	1	...	4	...	4
	Viasarapaudy ...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	Total...	1	...	2	...	...	...	...	...	...	...	1	...	...	...	...	...	...	...	...	...	...	...	1	...	5	...	5
5	Choolay	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	Pursewalkum ...	...	...	...	...	...	...	...	...	...	...	...	...	1	...	2	...	...	...	...	...	1	...	...	...	4	...	4
	Pareamettoo ...	...	...	...	...	...	...	...	...	1	...	...	...	...	...	1	...	...	...	1	...	...	...	...	...	3	...	3
	New Town ...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	Vepery	...	...	1	...	1	...	...	...	3	...	1	...	...	...	...	...	2	1	1	...	...	...	3	...	12	1	13
	Poodoopettah ...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	..	..	...	...	...	...	...	.	...	...	...
	Egmore ...	...	..	...	...	...	...	1	...	1	...	...	...	1	...	1	...	1	...	1	...	...	...	...	...	6	...	6
	Comaleeswarapuram ...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	Total ..	...	...	1	...	1	.	1	...	5	...	1	...	2	...	4	...	3	1	3	...	1	...	3	...	25	1	26
6	Kilpaukum ...	...	...	...	...	...	...	1	...	...	...	...	...	...	...	...	...	2	...	...	...	..	...	...	...	3	...	3
	Chetput ...	...	...	2	...	...	...	...	...	1	...	...	...	1	...	...	...	...	...	1	...	...	...	...	...	5	...	5
	Nungumbakum ...	1	...	1	...	...	...	...	...	1	...	...	...	...	...	...	...	1	...	1	...	...	...	...	...	5	...	5
	Mackey's Garden...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	Total...	1	...	3	...	..	...	1	...	2	...	...	...	1	...	...	...	3	...	2	...	...	.	..	...	13	..	13
7	Poodoopaukum ...	...	...	1	..	...	...	...	...	...	...	...	...	...	...	1	...	...	...	...	...	...	...	...	...	2	...	2
	Chintadripettah ...	...	...	...	...	...	...	...	...	1	...	...	...	...	...	1	...	...	...	...	...	...	...	...	...	2	...	2
	Narasingapuram ...	...	...	...	...	...	...	1	...	...	...	1	...	..	..	...	...	...	...	...	...	1	...	...	...	3	...	3
	Triplicane	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	Theroovateeswaranpettah ...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	Total...	...	...	1	..	...	...	1	...	1	...	1	...	...	...	2	...	..	...	...	...	1	...	...	...	7	...	7
8	Saint Thomé	1	...	1	...	...	...	...	...	...	...	...	...	1	...	1	...	1	...	2	...	...	...	...	...	7	...	7
	Alwarpettah ...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	Royapettah ...	...	...	...	...	...	...	...	...	...	...	...	...	1	...	...	...	...	...	...	...	...	...	...	...	1	...	1
	Meersaib's Pettah ...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	Kistnampettah ...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	Thanampettah ...	1	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	1	...	1
	Total...	2	...	1	...	...	...	...	...	...	...	...	...	2	...	1	...	1	...	2	...	...	...	...	...	9	..	9
	General Total...	5	...	8	...	2	...	7	...	11	...	9	...	10	...	13	...	13	1	9	...	4	..	4	..	95	1	96
Births from Hospitals.	Monegar Choultry Hospital ...	...	...	...	..	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	General Hospital ...	1	...	...	...	...	...	3	...	3	...	...	...	1	...	1	...	5	...	5	..	3	...	2	...	24	...	24
	Lock Hospital ...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	Hospital for Women & Children..	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	Lying-in Hospital ...	1	..	1	...	...	1	2	...	2	..	2	...	4	...	...	...	1	...	1	...	...	...	1	1	15	2	17
	Penitentiary Hospital ...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	Lunatic Asylum ...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	Royapettah Hospital ...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	Total...	2	...	1	...	...	1	5	...	5	...	2	...	5	...	1	...	6	...	6	...	3	...	3	1	39	2	41
	General Total...	7	...	9	...	2	1	12	...	16	...	11	...	15	...	14	...	19	1	15	...	7	...	7	1	134	3	137

APPENDIX V.

VITAL STATISTICS.

TABLE IV.—BIRTHS.

Return of Births among East Indians in each Village of the City of Madras, for the year 1879, arranged according to Months.

Municipal Divisions.	Names of Villages.	EAST INDIANS.																								Total Births.
		Jan.		Feb.		Mar.		Apl.		May		June		July		Aug.		Sep.		Oct.		Nov.		Dec.		Total.		
		Born Alive.	Still Born.	Born Alive.	Still Born.	Born Alive.	Still Born.	Born Alive.	Still Born.	Born Alive.	Still Born.	Born Alive.	Still Born.	Born Alive.	Still Born.	Born Alive.	Still Born.	Born Alive.	Still Born.	Born Alive.	Still Born.	Born Alive.	Still Born.	Born Alive.	Still Born.	Born Alive.	Still Born.	
1	Tondiarpettah ...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	Washermenpettah	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	Royapuram ...	2	...	1	...	1	...	1	...	..	...	4	...	2	..	...	...	6	..	1	...	1	...	3	...	22	...	22
	Cashmode ...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	..	...	...	1	...	1	...	2	...	2
	Total...	2	...	1	.	1	...	1	...	...	...	4	...	2	...	...	...	6	...	1	...	2	..	4	...	24	..	24
2	Peddoo Naick's Pettah ...	3	...	...	..	3	...	...	...	5	...	3	...	6	1	7	1	3	...	1	...	2	...	7	...	40	2	42
	Big Parcherry ...	...	...	..	..	...	...	1	...	...	...	...	...	..	..	...	...	...	...	...	...	...	...	...	...	1	...	1
	John Pereira's Garden ...	...	...	...	.	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	Total...	3	...	...	...	3	...	1	...	5	...	3	...	6	1	7	1	3	...	1	...	2	...	7	...	41	2	43
3	Moothealpettah	6	...	8	...	4	..	4	...	11	..	11	2	9	...	13	1	6	1	6	..	9	...	10	...	97	4	101
	Uttapauliam ...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	Fort St. George ...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	Total...	6	...	8	...	4	...	4	...	11	...	11	2	9	...	13	1	6	1	6	...	9	...	10	..	97	4	101
4	Gunpowder Mills... ...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	Perambore	5	..	...	...	1	...	...	...	1	...	...	...	1	...	1	...	...	...	...	...	1	...	...	...	10	...	10
	Viasarapaudy	...	...	.	...	.	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	Total...	5	...	...	...	1	...	...	..	1	...	...	...	1	...	1	...	...	...	...	...	1	...	...	...	10	...	10
5	Choolay	...	...	...	...	1	...	...	...	...	...	...	...	...	.	...	...	...	...	...	...	...	...	...	...	1	..	1
	Pursewalkum ...	2	...	...	...	...	...	2	...	4	..	2	...	1	...	...	...	2	1	5	...	2	...	1	...	21	1	22
	Pareamettoo ...	2	...	...	...	1	...	1	...	...	...	1	...	1	...	2	..	3	..	1	...	5	...	4	...	21	...	21
	New Town ...	...	...	1	...	1	...	...	...	...	...	1	...	...	...	...	...	...	...	...	...	...	...	...	...	3	...	3
	Vepery ...	1	...	3	...	2	...	1	...	1	...	...	...	1	..	2	...	1	...	2	...	4	...	1	1	19	1	20
	Poodoopettah ...	...	...	...	...	...	...	1	...	1	...	...	...	1	...	3	...	...	...	...	...	2	...	...	...	8	...	8
	Egmore	...	...	...	...	1	..	1	...	...	...	...	...	1	...	...	...	...	...	1	...	1	...	1	..	6	...	6
	Comaleeswarapuram ...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	Total...	5	...	4	...	6	...	6	...	6	...	4	..	5	...	7	...	6	1	9	..	14	...	7	1	79	2	81
6	Kilpaukum ...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	1	...	...	...	...	...	...	...	1	..	1
	Chetput	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	Nungumbakum ...	...	...	...	...	...	...	...	...	...	...	...	...	..	...	...	...	...	...	...	...	...	...	1	..	1	..	1
	Mackey's Garden...	...	...	...	...	...	...	...	..	...	...	...	...	...	...	...	...	...	...	1	.	...	...	...	...	1	...	1
	Total...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	1	..	1	...	..	...	1	...	3	...	3
7	Poodoopaukum ...	...	...	...	...	...	...	...	...	...	...	1	...	1	1	1	...	...	...	...	...	1	...	...	...	4	1	5
	Chintadripettah ...	...	...	...	...	1	...	...	...	...	...	...	...	1	...	1	...	1	...	2	...	2	...	...	...	8	..	8
	Narasingapuram ...	...	...	1	...	...	...	1	...	...	...	...	...	2	...	..	...	...	...	...	...	...	...	...	...	4	...	4
	Triplicane	...	...	...	...	...	...	...	...	..	.	...	...	...	...	2	...	...	...	...	...	...	...	2	...	4	...	4
	Theroovateeswaranpettah ...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	1	...	...	...	...	...	...	...	...	...	1	..	1
	Total...	...	...	1	...	1	...	1	...	...	...	1	...	4	1	5	...	1	...	2	...	3	..	2	...	21	1	22
8	Saint Thomé	..	..	2	...	...	...	1	...	...	...	...	...	1	..	2	...	...	...	2	...	1	..	...	...	9	...	9
	Alwarpettah ...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	Royapettah ...	2	...	2	...	...	...	1	...	1	...	...	...	2	...	...	...	...	...	...	...	1	...	1	...	10	...	10
	Meersaib's Pettah ...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	Kistnampettah ...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	Thanampettah ...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	Total...	2	...	4	...	...	...	2	...	1	...	...	...	3	...	2	...	...	...	2	...	2	...	1	...	19	..	19
	General Total...	23	..	18	...	16	..	15	...	24	...	23	2	30	2	35	2	23	2	22	...	33	...	32	1	294	9	303
Births from Hospitals.	Monegar Choultry Hospital ...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	..	...	...	...
	General Hospital ...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	.	...	...	...	..	...	...	...	...	...	...
	Lock Hospital ...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	Hospital for Women & Children ...	...	...	...	...	...	...	...	...	1	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	1	...	1
	Lying-in-Hospital ...	4	...	3	...	2	...	3	..	9	1	11	...	7	...	6	...	9	...	16	...	10	...	12	...	95	1	96
	Penitentiary Hospital ...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	Lunatic Asylum ...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	Royapettah Hospital ...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	Total...	4	...	6	...	2	...	3	...	10	1	11	...	7	...	6	...	9	...	16	...	10	...	12	..	96	1	97
	General Total...	27	...	24	...	18	...	18	...	34	1	34	2	37	2	41	2	32	2	38	...	43	...	44	1	390	10	400

APPENDIX V.

VITAL STATISTICS.

TABLE V.—BIRTHS.

Return of Births among Native Christians in each Village of the City of Madras, for the year 1879, arranged according to Months.

Municipal Divisions.	Names of Villages.	NATIVE CHRISTIANS.																														Total Births.
		Jan.		Feb.		Mar.		Apl.		May		June		July		Aug.		Sep.		Oct.		Nov.		Dec.		Total.							
		Born Alive.	Still Born.	Born Alive.	Still Born.	Born Alive.	Still Born.	Born Alive.	Still Born.	Born Alive.	Still Born.	Born Alive.	Still Born.	Born Alive.	Still Born.	Born Alive.	Still Born.	Born Alive.	Still Born.	Born Alive.	Still Born.	Born Alive.	Still Born.	Born Alive.	Still Born.	Born Alive.	Still Born.						
1	Tondiarpettah	1	...	...	...	...	...	...	...	...	...	...	..	1	...	...	...	..	...	1	...	...	...	...	...	3	...					3
	Washermenpettah	1	...	1	...	...	...	3	...	1	...	2	...	5	...	...	...	2	...	3	...	4	...	1	...	23	...					23
	Royapuram	5	1	5	...	6	...	16	...	6	...	7	...	11	...	10	...	9	...	12	...	8	...	7	...	102	1					103
	Cashmode	...	...	...	...	...	...	1	...	1	...	4	...	6	...	6	1	3	...	5	...	8	...	11	...	45	1					46
	Total...	7	1	6	...	6	...	20	...	8	...	13	...	23	...	16	1	14	...	21	...	20	...	19	...	173	2					175
2	Peddoo Naick's Pettah	2	...	3	...	...	...	...	...	2	...	2	...	4	...	5	...	7	...	4	...	2	...	6	...	37	...					37
	Big Parcherry	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...					...
	John Pereira's Garden	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...					...
	Total...	2	...	3	...	...	...	...	...	2	...	2	...	4	...	5	...	7	...	4	...	2	...	6	...	37	...					37
3	Moothealpettah	3	...	3	...	4	...	4	...	7	1	5	...	4	...	9	...	12	...	4	1	9	...	12	...	76	2					78
	Uttapaulium	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...					...
	Fort St. George	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...					...
	Total...	3	...	3	...	4	...	4	..	7	1	5	...	4	...	9	..	12	...	4	1	9	...	12	...	76	2					78
4	Gunpowder Mills	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...					...
	Perambore	...	...	...	...	1	...	...	...	1	...	...	...	...	...	...	...	1	...	1	..	...	...	...	...	4	...					4
	Viasarapaudy	...	...	..	...	...	..	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...					...
	Total...	...	...	...	...	1	...	...	...	1	...	...	...	...	...	...	...	1	...	1	...	...	...	...	...	4	...					4
5	Choolay	...	...	..	...	1	...	...	...	...	...	...	...	2	...	...	...	...	...	1	...	...	...	...	...	4	...					4
	Pursewalkum	5	...	4	...	...	...	3	...	4	...	8	...	3	...	2	2	2	...	5	...	7	...	3	1	46	3					49
	Pareamettoo	1	...	2	...	1	...	1	...	1	...	...	...	...	...	2	...	1	...	1	...	1	...	...	...	11	...					11
	New Town	...	...	...	...	...	...	1	...	...	...	...	...	...	..	...	...	...	...	...	...	...	...	...	...	1	...					1
	Vepery	...	...	...	...	2	...	1	...	...	...	...	...	1	...	...	...	2	...	1	...	...	...	1	...	8	...					8
	Poodoopettah	...	...	4	...	..	.	6	...	3	...	4	...	1	...	1	...	4	...	2	...	2	...	..	...	27	...					27
	Egmore	...	...	...	...	...	...	...	...	1	...	...	...	...	...	...	...	...	...	1	...	...	...	4	...	6	...					6
	Comaleeswarapuram	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...					...
	Total...	6	...	10	...	4	...	12	...	9	...	12	...	7	...	5	2	9	...	11	...	10	...	8	1	103	3					106
6	Kilpaukum	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...					...
	Chetput	...	...	...	...	...	...	...	...	1	...	...	...	...	...	...	...	...	...	1	...	...	...	...	...	2	...					2
	Nungumbakum	1	...	...	...	1	...	2	...	...	...	...	...	...	...	1	...	...	...	...	...	...	...	1	...	6	...					6
	Mackey's Garden	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	2	...	...	...	1	...	3	...					3
	Total...	1	...	...	...	1	...	2	...	1	...	...	...	...	...	1	...	...	...	3	...	...	...	2	...	11	...					11
7	Poodoopaukum	...	...	1	...	1	...	2	...	...	...	...	...	...	...	...	...	...	...	1	...	...	...	...	...	5	...					5
	Chintadripettah	...	...	...	...	1	...	...	...	2	...	...	...	...	...	1	...	...	...	2	...	2	...	...	...	8	...					8
	Narasingapuram	1	...	...	...	...	...	1	...	...	...	...	...	1	...	...	...	1	...	1	...	...	...	1	...	6	...					6
	Triplicane	...	...	3	..	2	...	...	...	1	...	...	...	1	...	2	...	...	...	1	...	...	...	1	...	11	...					11
	Theroovateeswaranpettah	...	...	...	...	...	...	1	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	1	...					1
	Total...	1	...	4	...	4	...	4	...	3	...	...	...	2	...	3	...	1	...	5	...	2	...	2	...	31	...					31
8	Saint Thomé	4	...	1	...	5	...	3	...	4	...	7	...	2	...	6	...	8	...	8	...	6	...	6	...	60	...					60
	Alwarpettah	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...					...
	Royapettah	1	...	...	...	1	...	1	...	...	...	1	...	...	...	2	...	1	...	...	...	1	...	2	...	10	...					10
	Meersaib's Pettah	1	...	...	...	2	...	...	...	...	...	...	...	1	...	...	...	2	...	...	...	...	...	1	...	7	...					7
	Kistnampettah	...	...	...	...	1	...	...	...	...	...	...	...	...	...	2	...	...	...	...	...	...	...	...	...	3	...					3
	Thanampettah	1	...	...	...	...	...	...	...	...	...	...	...	1	...	2	...	1	...	...	...	2	...	...	...	7	...					7
	Total...	7	...	1	...	9	...	4	...	4	...	8	...	4	...	12	...	12	...	8	...	9	...	9	...	87	..					87
	General Total...	27	1	27	...	29	...	46	...	35	1	40	...	44	...	51	3	56	...	57	1	52	...	58	1	522	7					529
Births from Hospitals.	Monegar Choultry Hospital	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	..					...
	General Hospital	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...					...
	Lock Hospital	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...					...
	Hospital for Women & Children	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...					...
	Lying-in Hospital	9	..	11	...	1	...	12	1	12	...	14	...	23	1	20	...	17	...	15	...	24	...	13	...	171	2					173
	Penitentiary Hospital	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...					...
	Lunatic Asylum	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...					...
	Royapettah Hospital	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...					...
	Total...	9	...	11	...	1	...	12	1	12	...	14	...	23	1	20	...	17	...	15	...	24	...	13	...	171	2					173
	General Total...	36	1	38	...	30	..	58	1	47	1	54	...	67	1	71	3	73	...	72	1	76	...	71	1	693	9					702

APPENDIX V.

VITAL STATISTICS.

TABLE VI.—BIRTHS.

Return of Births among Hindus in each Village of the City of Madras, for the year 1879, arranged according to Months.

Municipal Divisions.	Names of Villages.	HINDUS.																											
		Jan.		Feb.		Mar.		Apl.		May.		June.		July.		Aug.		Sept.		Oct.		Nov.		Dec.		Total.		Total Births.
		Born Alive.	Still Born.	Born Alive.	Still Born.	Born Alive.	Still Born.	Born Alive.	Still Born.	Born Alive.	Still Born.	Born Alive	Still Born.	Born Alive.	Still Born.	Born Alive.	Still Born.	Born Alive	Still Born.	Born Alive.	Still Born.	Born Alive.	Still Born.	Born Alive.	Still Born.	Born Alive.	Still Born.	
1	Tondiarpettah...	8	..	10	..	11	..	10	..	11	..	6	1	10	..	9	..	23	..	39	..	25	...	31	...	193	1	194
1	Washermenpettah	114	2	101	1	99	1	107	..	118	..	120	3	149	1	118	1	160	7	171	..	143	4	178	5	1,578	25	1,603
1	Royapuram ..	75	1	48	..	62	..	49	..	48	1	50	1	58	..	66	..	82	2	68	1	84	2	72	1	762	9	771
1	Cashmode.. ..	25	..	36	..	30	..	33	..	34	..	29	..	39	..	45	..	24	..	31	..	38	1	46	1	410	2	412
	Total..	222	3	195	1	202	1	199	..	211	1	205	5	256	1	238	1	289	9	309	1	290	7	327	7	2,943	37	2,980
2	Peddoo Naick's Pettah	140	4	114	2	149	2	122	5	152	7	157	3	168	3	262	6	250	6	272	8	239	10	233	5	2,258	61	2,319
2	Big Parcherry..	..	..	..	..	..	..	..	..	...	..	..	..	..	..	..	..	..	..	...	..	...	...	..	...	..	..	..
2	John Pereira's Garden	..	..	..	..	..	..	..	..	...	..	..	..	..	...	..	..	..	..	...	..	...	...	...	...	..	..	..
	Total..	140	4	114	2	149	2	122	5	152	7	157	3	168	3	262	6	250	6	272	8	239	10	233	5	2,258	61	2,319
3	Moothealpettah	72	1	66	..	79	2	89	3	85	2	107	5	132	1	137	10	155	7	156	6	144	3	117	2	1,339	42	1,381
3	Uttapaulium ..	..	..	...	..	..	..	..	..	...	..	..	..	...	..	..	..	..	..	...	..	...	...	...	...	..	..	...
3	Fort St. George	..	..	..	..	..	..	..	..	...	..	..	..	...	..	..	..	..	..	...	..	...	...	...	...	..	..	...
	Total..	72	1	66	..	79	2	89	3	85	2	107	5	132	1	137	10	155	7	156	6	144	3	117	2	1,339	42	1,381
4	Gunpowder Mills	3	..	1	..	1	..	2	..	1	..	1	..	...	..	..	..	..	..	...	..	...	...	...	...	9	...	9
4	Perambore ..	18	..	12	1	14	..	14	1	17	2	23	..	29	..	33	..	24	1	29	1	24	4	34	...	271	10	281
4	Viasarapaudy ..	2	...	3	..	6	..	6	..	4	...	4	..	6	..	8	..	6	..	6	..	8	...	10	...	69	...	69
	Total..	23	...	16	1	21	..	22	1	22	2	28	..	35	..	41	..	30	1	35	1	32	4	44	...	349	10	359
5	Choolay	38	1	22	2	24	2	35	..	27	1	25	2	44	3	34	3	47	..	37	4	32	2	46	1	411	21	432
5	Pursewalkum ..	38	2	27	2	40	1	39	1	50	2	48	1	45	4	69	6	62	1	90	2	87	1	92	..	687	23	710
5	Pareamettoo ..	16	..	13	..	12	1	7	..	10	..	7	..	14	..	12	1	25	..	23	...	19	1	17	..	175	3	178
5	New Town ..	..	..	..	..	..	..	..	..	..	..	..	..	...	..	..	..	...	..	...	..	...	...	..	...	..	...	...
5	Vepery	5	..	2	..	4	..	4	..	4	..	9	..	4	..	13	..	9	..	11	..	3	...	7	..	75	...	75
5	Poodoopettah ..	5	..	12	1	5	..	6	..	6	..	7	..	4	..	6	..	13	..	11	..	20	...	16	..	111	1	112
5	Egmore	16	..	6	..	15	1	10	..	12	..	10	..	16	..	17	..	15	..	24	2	18	2	20	..	179	5	184
5	Comaleeswarapuram	10	1	8	..	10	..	15	..	12	..	12	..	7	..	10	..	11	..	11	..	15	...	27	..	148	1	149
	Total..	128	4	90	5	110	5	116	1	121	3	118	3	134	7	161	10	182	1	207	8	194	6	225	1	1,786	54	1,840
6	Kilpaukum ..	4	..	13	..	10	..	1	..	15	1	9	..	6	..	9	1	7	..	11	1	8	...	10	..	103	3	106
6	Chetput	23	..	15	..	11	1	10	..	11	..	10	..	26	..	26	..	21	..	23	..	19	...	20	..	215	1	216
6	Nungumbakum	16	..	10	..	25	1	20	..	27	..	17	..	18	..	19	3	40	..	33	..	20	...	52	..	297	4	301
6	Mackey's Garden . ..	12	..	16	..	19	..	17	1	14	..	10	..	17	..	18	..	31	..	25	..	14	...	29	...	222	1	223
	Total..	55	..	54	..	65	2	48	1	67	1	46	..	67	..	72	4	99	..	92	1	61	...	111	..	837	9	846
7	Poodoopaukum.	18	..	16	1	12	1	20	..	15	2	14	1	20	..	20	..	29	1	29	1	23	1	20	1	236	9	245
7	Chintadripettah	34	..	22	..	25	1	32	1	33	1	43	2	53	1	51	1	50	3	60	1	78	...	52	..	533	11	544
7	Narasingapooram	..	..	7	..	2	..	1	1	1	..	1	..	5	..	6	..	4	..	4	...	4	..	12	..	47	1	48
7	Triplicane ..	49	..	42	..	35	2	47	2	44	..	63	2	68	..	77	1	73	..	76	...	77	...	77	1	728	8	736
7	Theroovateeswaranpettah..	5	..	4	..	4	..	4	..	6	..	4	1	10	..	10	..	13	..	9	1	7	...	14	1	90	3	93
	Total..	106	..	91	1	78	4	104	4	99	3	125	6	156	1	164	2	169	4	178	3	189	1	175	3	1,684	32	1,666
8	Saint Thomé ..	38	..	34	..	47	..	34	1	48	..	47	3	57	1	80	1	82	2	61	5	61	..	60	1	649	14	663
8	Alwarpettah ..	5	..	3	..	3	..	..	..	2	..	6	1	1	..	8	..	5	..	2	1	11	...	8	..	54	2	56
8	Royapettah ..	11	..	2	..	4	..	10	..	9	1	11	..	13	1	10	..	10	..	20	...	15	1	15	..	130	3	133
8	Meersaib's Pettah	4	...	6	..	2	..	3	2	10	..	5	1	11	..	11	..	12	..	9	...	10	...	8	..	91	3	94
8	Kistnampettah..	5	...	9	..	7	..	7	..	8	..	7	..	8	1	9	..	18	..	15	...	11	...	7	..	111	1	112
8	Thanampettah	4	...	9	..	12	..	10	..	6	..	9	..	17	..	15	..	14	..	19	...	17	...	13	..	145	...	145
	Total..	67	...	63	..	75	...	64	3	83		85	5	107	3	133	1	141	2	126	6	125	1	111	1	1,180	23	1,203
	General Total..	813	12	689	10	779	16	764	18	840	20	871	27	1,055	16	1,208	34	1,315	30	1,375	34	1,274	32	1,343	19	12,326	268	12,594
Births from Hospitals.	Monegar Choultry Hospital...	..	...	...	..	...	...	..	..	..	..	..	..	...	..	..	..	...	..	...	...	...	...	..	...	...	...	..
Births from Hospitals.	Genl. Hospital...	..	...	...	..	...	...	..	..	..	..	..	..	...	..	..	..	..	..	..	...	...	...	.	...	...	...	..
Births from Hospitals.	Lock Hospital...	...	...	...	...	...	...	...	...	..	..	...	..	...	..	..	..	..	..	..	...	...	...	...	...	...	...	..
Births from Hospitals.	Hospital for Women and Children ...	...	...	1	...	...	...	...	...	..	..	...	..	...	...	..	..	..	..	..	...	...	...	...	...	1	...	1
Births from Hospitals.	Lying-in Hospital	71	2	64	2	48	4	42	3	52	2	80	1	77	2	124	3	120	6	128	...	106	3	84	1	991	29	1,020
Births from Hospitals.	Penitentiary Hospital ...	1	..	...	..	...	...	...	...	1	..	...	..	...	...	..	..	..	..	..	...	...	...	...	...	2	..	2
Births from Hospitals.	Lunatic Asylum	..	...	...	...	...	...	...	...	...	...	...	..	...	...	..	..	...	..	..	...	...	...	...	...	..	..	...
Births from Hospitals.	Royapettah Hospital ...	...	..	...	..	...	...	...	..	...	...	...	..	...	...	..	...	...	...	..	...	...	...	...	..	..	..	...
	Total..	72	2	65	2	48	4	42	3	53	2	80	1	77	2	124	3	120	6	123	...	106	...	84	1	994	29	1,023
	General Total..	885	14	754	12	827	20	806	21	893	22	951	28	1,132	18	1,332	37	1,435	36	1,498	34	1,380	34	1,427	20	13,320	297	13,617

APPENDIX V.

VITAL STATISTICS.

TABLE VII.—BIRTHS.

Return of Births among Mahomedans in each Village of the City of Madras, for the year 1879, arranged according to Months.

Names of Villages.	MAHOMEDANS.																									
	Jan.		Feb.		March.		April		May.		June		July.		Aug.		Sep.		Oct		Nov.		Dec.		Total.		Total Births.
	Born Alive.	Still Born.	Born Alive.	Still Born.	Born Alive.	Still Born.	Born Alive	Still Born.	Born Alive.	Still Born.	Born Alive.	Still Born.	Born Alive	Still Born.	Born Alive	Still Born.	Born Alive.	Still Born.	Born Alive.	Still Born.	Born Alive.	Still Born.	Born Alive.	Still Born.	Born Alive.	Still Born.	
Tondiarpettah ...	...	...	...	...	...	..	...	..	...	...	...	..	...	...	...	...	...	...	...	...	...	...	1	...	1	...	1
Washermenpettah ...	5	...	5	1	5	...	4	...	1	...	1	...	21	...	25	1	7	...	5	...	12	..	2	1	93	3	96
Royapuram ...	6	...	4	...	5	...	2	..	3	...	6	1	5	...	7	...	15	..	7	...	9	...	3	...	72	1	73
Cashmode ...	3	...	3	...	6	...	8	...	7	1	12	...	11	1	15	..	8	..	8	..	4	...	4	...	89	2	9
Total...	14	...	12	1	16	...	14	...	11	1	19	1	37	1	47	1	30	...	20	...	25	...	10	1	255	6	261
Peddoo Naick's Pettah	2	...	2	...	4	...	...	1	3	...	2	...	9	...	11	..	9	...	7	...	4	...	5	...	58	1	59
Big Parcherry ...	...	...	...	...	...	..	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
John Pereira's Garden...	...	...	...	...	...	...	..	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	.	...
Total...	2	...	2	...	4	...	...	1	3	...	2	...	9	...	11	...	9	...	7	...	4	...	5	...	58	1	59
Moothealpettah ...	20	1	18	...	26	..	21	1	19	...	21	...	36	1	46	...	26	...	31	...	36	1	27	1	327	5	332
Uttapaulium ...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Fort St. George ...	...	...	...	..	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Total...	20	1	18	...	26	...	21	1	19	...	21	...	36	1	46	..	26	...	31	...	36	1	27	1	327	5	332
Gunpowder Mills ...	...	...	...	...	...	...	...	..	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Perambore ...	5	...	6	...	3	1	4	..	4	...	6	...	14	...	8	...	11	...	6	...	3	1	8	...	78	2	80
Viasarapaudy ...	...	...	...	...	...	..	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Total..	5	...	6	...	3	1	4	...	4	...	6	..	14	...	8	...	11	...	6	..	3	1	8	...	78	2	80
Choolay ...	..	...	1	...	1	...	1	...	1	...	...	.	1	...	3	...	3	...	2	...	1	...	3	.	17	...	17
Pursewalkum ...	1	...	1	...	1	...	1	...	1	...	1	..	1	...	2	...	5	...	3	..	1	...	2	...	20	...	20
Pareamettoo ...	1	..	...	..	1	...	1	...	...	...	2	.	1	...	1	...	2	...	...	...	1	...	5	...	15	...	15
New Town ...	...	...	...	...	...	...	...	...	...	...	...	..	...	..	...	...	...	...	...	...	...	...	...	...	...	...	...
Vepery ...	...	...	...	...	1	...	2	...	2	...	6	...	3	...	7	...	2	...	1	...	3	...	1	...	28	...	28
Poodoopettah ...	...	...	1	...	...	...	...	...	2	...	...	...	...	1	4	...	...	...	1	...	...	...	...	...	8	1	9
Egmore ...	2	...	...	...	...	..	1	...	...	...	1	...	...	...	2	...	...	...	...	...	1	...	1	...	8	...	8
Comaleeswarapuram ...	1	...	...	...	...	..	...	...	1	...	...	...	1	..	...	...	...	...	..	...	...	...	1	...	4	...	4
Total...	5	...	3	...	4	..	6	...	7	..	10	...	7	1	19	...	12	...	7	...	7	...	13	...	100	1	101
Kilpaukum ...	...	...	...	...	...	...	...	...	...	...	1	...	...	...	...	...	...	...	...	...	...	...	...	...	1	...	1
Chetput... ...	4	...	...	...	...	...	...	...	...	...	...	...	...	...	1	..	...	...	1	...	1	...	...	...	7	...	7
Nungumbakum ..	1	...	1	...	...	..	...	...	2	...	2	...	...	...	...	...	2	...	1	...	...	...	...	...	9	...	9
Mackey's Garden ...	1	...	1	...	1	...	1	...	4	...	1	...	1	...	3	...	3	...	4	...	...	...	5	...	25	...	25
Total...	6	..	2	...	1	...	1	...	6	...	4	...	1	...	4	...	5	...	6	...	1	...	5	...	42	...	42
Poodoopaukum... ...	6	...	5	...	6	...	5	1	7	...	3	1	2	...	12	...	13	1	6	...	13	...	7	1	85	4	89
Chintadripettah ...	2	...	2	...	2	1	1	...	3	...	...	...	3	...	1	...	3	...	4	...	...	...	1	...	23	1	23
Narasingapuram ...	...	...	2	...	2	...	1	...	1	...	5	...	1	1	1	...	1	...	...	...	4	...	...	...	18	1	19
Triplicane	28	...	19	...	33	2	35	2	42	...	26	2	52	2	41	2	44	1	44	...	48	3	47	2	459	16	475
Theroovateeswarnpettah ...	...	...	1	...	3	...	5	...	4	...	6	1	3	...	6	..	7	...	10	2	3	...	2	1	50	4	54
Total...	36	...	29	..	46	3	47	3	57	...	40	4	61	3	61	2	68	2	64	2	68	3	57	4	634	26	660
Saint Thomé	2	...	6	...	3	1	3	...	3	...	6	...	6	...	5	1	3	...	6	...	7	...	8	...	58	2	60
Alwarpettah	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Royapettah	7	...	1	...	1	...	4	...	2	...	4	..	5	...	...	..	3	...	...	...	12	...	8	...	47	...	47
Meersaib's Pettah ...	2	...	4	1	4	..	...	...	1	...	5	1	8	...	8	...	3	...	2	...	2	1	1	1	40	4	44
Kistnampettah ...	...	...	3	..	1	...	1	...	2	...	1	..	...	...	...	...	3	...	1	...	5	...	3	...	20	...	20
Thanampettah ...	1	..	...	..	...	...	...	...	1	..	1	...	1	...	1	...	...	...	2	...	2	...	1	...	10	..	10
Total...	12	...	14	1	9	1	8	...	9	...	17	1	20	...	14	1	12	..	11	...	28	1	21	1	175	6	181
General Total...	100	1	86	2	109	5	101	5	116	1	119	6	185	6	210	4	173	2	152	2	172	6	146	7	1,669	47	1,716
Monegar Choultry Hospl.	...	...	...	...	...	...	...	...	...	...	...	...	..	...	...	...	...	...	...	...	...	...	...	...	...	...	...
General Hospital ...	...	...	...	...	...	...	...	...	...	..	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Lock Hospital ...	...	...	...	...	...	...	...	.	...	...	...	...	...	...	...	...	...	...	...	...	...	..	...	...	...	...	...
Hospital for Women and Children ...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	..	...	...
Lying-in Hospital ...	3	...	4	...	6	...	7	...	3	...	3	...	3	1	3	...	6	...	4	...	8	...	5	1	55	2	57
Penitentiary Hospital ...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Lunatic Asylum ...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	..	...	...	...	...	...	...	...	...
Royapettah Hospital ...	...	...	...	..	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Total...	3	...	4	...	6	...	7	...	3	...	3	...	3	1	3	...	6	...	4	...	8	...	5	1	55	2	57
General Total...	103	1	90	2	115	5	108	5	119	1	122	6	188	7	213	4	179	2	156	2	180	6	151	8	1,724	49	1,737

VITAL STATISTICS.

TABLE VIII.—BIRTHS.

Return of Births among all Classes in each Village of the City of Madras, for the year 1879.

Municipal Divns.	Names of Villages.	Population.	Europeans.		East Indians.		Native Christians.		Hindus.		Mahomedans.		Total.		Total Births.	Ratio per 1,000 of Population.
			Born Alive.	Still Born.	Born Alive.	Still Born.	Born Alive.	Still Born.	Born Alive.	Still Born.	Born Alive.	Still Born.	Born Alive.	Still Born.		
1	Tondiarpettah	35,240	..	..	..	..	3	..	193	1	1	..	197	1	198	46·0
	Washermenpettah ..	6,409	..	..	..	..	23	..	1,578	25	93	3	1,694	28	1,722	
	Royapuram	11,089	16	..	22	..	102	1	762	9	72	1	974	11	985	88·0
	Cashmode	12,383	..	..	2	..	45	1	410	2	89	2	546	5	551	44·5
	Total..	65,121	16	..	24	..	173	2	2,943	37	255	6	3,411	45	3,456	53·0
2	Peddoo Naick's Pettah ..	65,629	5	..	40	2	37	..	2,258	61	58	1	2,398	64	2,462	37·2
	Big Parcherry ..	5,179	..	..	1	..	..	..	..	..	..	..	1	..	1	0·1
	John Pereira's Garden ..	2,930	1	..	..	..	..	..	..	..	..	..	1	..	1	0·3
	Total..	73,738	6	..	41	2	37	..	2,258	61	58	1	2,400	64	2,464	33·4
3	Moothealpettah ..	32,062	14	..	97	4	76	2	1,339	42	327	5	1,853	53	1,906	59·4
	Uttapaulium	18,895	..	..	..	..	..	..	..	..	..	..	..	..	...	
	Fort St. George ..	1,588	..	..	..	..	..	...	..	...	..	..	..	..	..	...
	Total..	52,545	14	..	97	4	76	2	1,339	42	327	5	1,853	53	1,906	59·4
4	Gunpowder Mills ..	641	1	..	..	..	..	..	9	..	...	..	10	..	10	15·6
	Perambore	5,650	4	..	10	..	4	..	271	10	78	2	367	12	379	67·0
	Viasarapaudy.. ..	3,500	..	..	..	..	..	..	69	...	...	..	69	...	69	19·7
	Total..	9,791	5	..	10	..	4	..	349	10	78	2	446	12	458	46·7
5	Choolay ..	15,000	..	..	1	..	4	..	411	21	17	..	433	21	454	30·2
	Pursewalkum ..	19,006	4	..	21	1	46	3	687	23	20	..	778	27	805	42·3
	Pareamettoo	11,275	3	..	21	..	11	..	175	8	15	..	225	3	228	20·5
	New Town		..	..	3	..	1	..	..	..	..	..	4	..	4	
	Vepery ..	4,500	12	1	19	1	8	..	75	..	28	..	142	2	144	31·7
	Poodoopettah ..	3,774	..	..	8	..	27	..	111	1	8	1	154	2	156	41·3
	Egmore ..	4,392	6	..	6	..	6	..	179	5	8	..	205	5	210	30·4
	Comaleeswarapuram ..	7,544	..	..	..	..	..	..	148	1	4	..	152	1	153	
	Total..	65,491	25	1	79	2	103	3	1,786	54	100	1	2,093	61	2,154	32·9
6	Kilpaukum ..	5,222	3	..	1	..	..	..	103	3	1	..	108	3	111	21·2
	Chetput ..	2,611	5	..	..	..	2	..	215	1	7	..	229	1	230	88·0
	Nungumbakum ..	7,704	5	..	1	..	6	..	297	4	9	..	318	4	322	41·7
	Mackey's Garden ..	3,853	..	..	1	..	3	..	222	1	25	..	251	1	252	65·4
	Total..	19,390	13	..	3	..	11	..	837	9	42	..	906	9	915	47·1
7	Poodoopaukum ..	6,087	2	..	4	1	5	..	236	9	85	4	332	14	346	56·9
	Chintadripettah ..	15,120	2	..	8	..	8	..	533	11	22	1	573	12	585	38·6
	Narasingapooram ..	3,046	3	..	4	..	6	..	47	1	18	1	78	2	80	26·2
	Triplicane ..	33,258	..	..	4	..	11	..	728	8	459	16	1,202	24	1,226	36·8
	Theroovateeswaranpettah ..	12,057	..	..	1	..	1	..	90	3	50	4	142	7	149	12·3
	Total..	69,568	7	..	21	1	31	...	1,634	32	634	26	2,327	59	2,386	34·2
8	Saint Thomé ..	20,575	7	..	9	..	60	...	649	14	58	2	783	16	799	39·3
	Alwarpettah ..	1,163	..	..	..	..	..	...	54	2	..	..	54	2	56	
	Royapettah ..	5,255	1	..	10	..	10	...	130	3	47	..	198	3	201	38·2
	Meersaib's Pettah ..	2,050	..	..	..	..	7	...	91	3	40	4	138	7	145	70·7
	Kistnampettah ..	5,193	..	..	..	..	3	...	111	1	20	..	134	1	135	25·9
	Thanampettah ..	7,246	1	..	..	..	7	...	145	..	10	..	163	..	163	22·4
	Total..	41,482	9	...	19	..	87	..	1,180	23	175	6	1,470	29	1,499	36·1
	General Total..	397,126	95	1	294	9	522	7	12,326	268	1,669	47	14,906	332	15,238	38·3
Births from Hospitals.	Monegar Choultry Hospital ..	426	..	..	..	..	..	...	..	..	..	..	..	..	..	..
	General Hospital ..	..	24	..	...	..	..	...	..	..	..	..	24	..	24	..
	Lock Hospital ..	..	..	..	..	..	..	...	..	..	..	..	...	..	..	..
	Hospital for Women and Children ..	..	..	..	1	..	..	...	1	..	..	..	2	..	2	..
	Lying-in Hospital ..	..	15	2	95	1	171	2	991	29	55	2	1,327	36	1,363	..
	Penitentiary Hospital ..	..	..	..	..	..	..	..	2	..	...	..	2	...	2	..
	Lunatic Asylum ..	..	..	..	..	..	..	..	..	..	...	..	...	...	..	..
	Royapetfah Hospital ..	..	..	..	..	..	..	...	..	...	...	...	...	..	..	..
	Total..	426	39	2	96	1	171	2	994	29	55	2	1,355	36	1,391	...
	General Total..	397,552	134	3	390	10	693	9	13,320	297	1,724	49	16,261	368	16,629	...

VITAL STATISTICS.

TABLE IX.—BIRTHS.

Return of Births in the City of Madras for the year 1879, *arranged according to Weeks.*

Number.	Weeks.	Born Alive.						Still Born.						Total Births.						Ratio.
		Europeans.	East Indians.	Native Christians.	Hindus.	Mahomedans.	Total.	Europeans	East Indians.	Native Christians.	Hindus.	Mahomedans.	Total	Europeans.	East Indians.	Native Christians.	Hindus.	Mahomedans.	Total.	
1	1st to 3rd Jan. 1879	..	..	4	3	119	11	137	..	..	..	2	..	2	...	4	3	121	11	139	..
2	4th to 10th „ „	..	..	7	11	216	14	248	..	..	1	3	..	4	...	7	12	219	14	252	32·9
3	11th to 17th „ „	..	2	6	6	193	32	239	..	..	..	2	..	2	2	6	6	195	32	241	31·4
4	18th to 24th „ „	...	..	6	8	170	25	209	..	..	..	5	1	6	...	6	8	175	26	215	28·1
5	25th to 31st „ „	..	5	4	8	187	21	225	..	..	..	1	..	1	5	4	8	188	21	226	29·5
6	1st to 7th Feb. „	..	1	6	13	229	24	273	..	..	..	2	..	2	1	6	13	231	24	275	35·3
7	8th to 14th „ „	..	6	8	10	164	15	203	..	..	..	5	1	6	6	8	10	169	16	209	27·8
8	15th to 21st „ „	..	2	5	4	177	25	213	..	..	..	3	1	4	2	5	4	180	26	217	28·3
9	22d to 28th „ „	..	..	7	11	184	26	228	..	..	..	2	..	2	...	7	11	186	26	230	30·0
10	1st to 7th Mar. „	..	..	3	8	212	26	249	1	..	..	6	3	10	1	3	8	218	29	259	33·8
11	8th to 14th „ „	..	1	5	4	159	27	196	..	..	..	4	2	6	1	5	4	163	29	202	26·4
12	15th to 21st „ „	..	..	5	9	199	20	233	..	..	..	6	..	6	...	5	9	205	20	239	31·2
13	22d to 28th „ „	..	1	5	7	189	32	234	..	..	..	2	..	2	1	5	7	191	32	236	30·8
14	29th to 4th April „	..	2	2	7	188	30	229	..	..	..	4	..	4	2	2	7	192	30	233	30·4
15	5th to 11th „ „	..	1	2	13	196	20	232	..	..	..	6	1	7	1	2	13	202	21	239	31·2
16	12th to 18th „ „	...	3	2	9	195	23	232	..	..	1	4	3	8	3	2	10	199	26	240	31·3
17	19th to 25th „ „	..	2	6	16	185	30	239	..	..	..	2	1	3	2	6	16	187	31	242	31·6
18	26th to 2nd May „	..	5	8	19	177	23	232	..	..	..	6	..	6	5	8	19	183	23	238	31·1
19	3rd to 9th „ „	..	3	6	6	187	22	224	..	..	..	4	..	4	3	6	6	191	22	228	29·8
20	10th to 16th „ „	..	3	5	12	193	20	233	..	..	1	9	1	11	3	5	13	202	21	244	31·9
21	17th to 23rd „ „	..	5	13	12	213	38	281	..	1	..	4	..	5	5	14	12	217	38	286	37·4
22	24th to 30th „ „	..	3	5	11	212	28	259	..	..	..	3	1	4	3	5	11	215	29	263	34·4
23	31st to 6th June „	..	3	13	14	225	32	287	..	..	..	9	..	9	3	13	14	234	32	296	38·7
24	7th to 13th „ „	..	5	7	13	215	24	264	..	..	..	2	2	4	5	7	13	217	26	268	35·0
25	14th to 20th „ „	..	2	6	12	235	30	285	..	2	..	7	1	10	2	8	12	242	31	295	38·6
26	21st to 27th „ „	..	2	7	15	197	24	245	..	..	..	8	3	11	2	7	15	205	27	256	33·4
27	28th to 4th July „	..	1	6	14	231	40	292	..	..	..	8	..	8	1	6	14	239	40	310	39·2
28	5th to 11th „ „	..	..	10	16	196	29	251	..	1	..	4	3	8	...	11	16	200	32	259	33·8
29	12th to 18th „ „	..	6	11	12	253	39	321	..	..	..	4	..	4	6	11	12	257	39	325	42·5
30	19th to 25th „ „	..	5	9	13	290	47	364	..	..	1	6	3	10	5	9	14	296	50	374	48·9
31	26th to 1st Aug. „	..	3	7	16	309	53	388	..	1	..	2	1	4	3	8	16	311	54	392	51·3
32	2nd to 8th „ „	..	1	4	17	294	56	372	..	..	..	6	..	6	1	4	17	300	56	378	49·4
33	9th to 15th „ „	..	7	4	16	279	61	367	..	..	..	9	2	11	7	4	16	288	63	378	49·4
34	16th to 22nd „ „	..	4	17	15	299	42	377	..	1	1	9	1	12	4	18	16	308	43	389	50·9
35	23rd to 29th „ „	..	2	10	17	320	41	390	..	..	1	12	1	14	2	10	18	332	42	404	52·8
36	30th to 5th Sep. „	..	2	9	16	319	38	384	1	..	..	10	..	11	3	9	16	329	38	395	51·7
37	6th to 12th „ „	..	4	8	16	347	43	418	..	..	..	7	2	9	4	8	16	354	45	427	55·9
38	13th to 19th „ „	..	6	8	19	347	38	418	..	1	..	6	..	7	6	9	19	353	38	425	55·6
39	20th to 26th „ „	..	3	8	20	340	40	411	..	1	..	8	..	9	3	9	20	348	40	420	54·9
40	27th to 3rd Oct. „	..	5	6	22	348	44	425	..	..	..	10	..	10	5	6	22	358	44	435	56·9
41	4th to 10th „ „	..	2	8	16	330	29	385	..	..	..	13	..	13	2	8	16	343	29	398	51·3
42	11th to 17th „ „	..	3	11	13	336	39	402	..	..	1	4	..	5	3	11	14	340	39	407	53·2
43	18th to 24th „ „	..	1	6	16	327	42	392	..	..	..	4	...	4	1	6	16	331	42	396	51·8
44	25th to 31st „ „	...	8	10	11	332	29	390	..	..	..	8	2	10	8	10	11	340	31	400	52·3
45	1st to 7th Nov. „	..	1	9	16	337	42	405	..	..	..	6	2	8	1	9	16	343	44	413	54·0
46	8th to 14th „ „	..	1	12	12	322	40	387	..	..	..	10	1	11	1	12	12	332	41	398	52·1
47	15th to 21st „ „	..	3	8	21	347	48	427	..	..	..	8	1	9	3	8	21	355	49	436	57·0
48	22nd to 28th „ „	..	1	11	21	282	43	358	..	1	...	8	...	9	1	12	21	290	43	367	48·0
49	29th to 5th Dec. „	..	3	11	17	376	40	447	..	..	..	6	2	8	3	11	17	382	42	455	59·5
50	6th to 12th „ „	..	..	7	14	314	40	375	..	1	...	2	6	9	...	8	14	316	46		50·2
51	13th to 19th „ „	..	..	18	22	290	33	358	..	..	2	4	1	7	...	18	24	294	34	365	47·7
52	20th to 31st „ „	..	5	14	24	539	46	628	1	..	..	12	...	13	6	14	24	551	46	641	..
	Total...	134	390	693	13,320	1,724	16,261	3	10	9	297	49	368	137	400	702	13,617	1,778	16,629	41·8

Return of Deaths from all causes for the year 1879, arranged according to Caste.

Class.	Order.	Classification.	Europeans.		East Indians.		Native Christians.		Hindus.		Mahomedans.		Total.	
			M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.
I		*General Diseases.*												
	1	Sub-division A	6	3	28	32	72	90	1,800	1,972	224	221	2,130	2,318
	2	Do. B	4	3	12	13	18	20	334	277	81	84	449	397
II		*Local Diseases.*												
	1	Diseases of the Nervous System	8	2	42	23	93	79	1,629	1,298	265	225	2,037	16,27
	2	Diseases of the Eye	...	...	...	...	...	...	...	...	...	...	...	...
	3	Diseases of the Ear	...	..	...	...	...	...	...	...	...	...	...	...
	4	Diseases of the Nose	...	...	...	...	...	...	...	...	...	...	...	...
	5	Diseases of the Circulatory System	4	3	6	3	6	3	28	22	6	1	50	32
	6	Diseases of the Absorbent	...	..	...	...	..	...	...	...	...	...	...	...
	7	Diseases of the Ductless Glands	...	...	...	...	...	...	...	...	...	...	...	...
	8	Diseases of the Respiratory System	...	...	12	8	7	9	224	156	34	39	277	212
	9	Diseases of the Digestive do.	25	11	29	35	54	66	797	767	72	89	977	968
	10	Diseases of the Urinary do.	2	...	5	...	4	...	19	2	4	...	34	2
	11	Diseases of the Generative do.	...	...	...	7	1	11	27	203	4	33	32	254
	12	Diseases of the Organs of Locomotion	...	...	...	1	...	...	3	..	...	...	3	1
	13	Diseases of the Cellular Tissue	...	...	...	...	2	1	13	6	1	1	16	8
	14	Diseases of the Cutaneous System	...	...	1	1	9	7	93	60	15	8	118	76
III		*Conditions, &c.*	5	2	12	15	28	25	508	680	122	126	675	848
	1	Debility	3	3	5	8	3	3	37	53	4	10	52	77
IV		*Poisons*	...	...	..	...	...	...	3	...	...	...	3	...
V		*Injuries.*												
	1	Battle	...	...	...	...	...	...	...	...	..	...	...	..
	2	Accidental	1	2	3	...	1	1	54	37	8	2	67	42
	3	Homicidal	...	...	...	...	...	...	...	...	...	...	...	...
	4	Self-inflicted	1	...	...	...	1	..	5	10	...	1	7	11
	5	Judicial	...	..	...	...	...	...	1	...	...	...	1	...
VI		*Surgical Operations*	...	...	...	...	1	...	...	1	...	...	1	1
		No appreciable Diseases	...	...	...	...	...	...	...	...	...	...	...	...
		Total	59	29	155	146	300	315	5,575	5,544	840	840	6,929	6,874
		Total of Males & Females	88		301		615		11,119		1,680		13,803	

APPENDIX V.

VITAL STATISTICS.

TABLE XI.—DEATHS.

Return shewing the average Deaths in Madras for 10 *previous years ending* 1878, *as contrasted with the Mortality of the year* 1879.

Year.	Deaths from Special Diseases.						Deaths from other Diseases.	General Total.	Order of salubrity.
	Small-pox.	Measles.	Fevers.	Bowel Complaints.	Cholera.	Total.			
1868	799	85	2,232	1,831	13	4,960	7,242	12,202	3
1869	38	4	2,015	1,556	568	4,181	7,081	11,262	1
1870	18	12	2,296	1,589	861	4,776	7,109	11,885	2
1871	234	87	2,474	1,896	493	5,184	7,851	13,035	4
1872	624	34	2,848	2,035	5	5,546	8,472	14,018	6
1873	1,052	10	2,569	2,170	6	5,807	8,802	14,609	8
1874	819	11	2,679	2,124	...	5,633	9,127	14,760	9
1875	196	...	2,445	2,072	935	5,648	8,521	14,169	7
1876	409	12	2,351	2,295	2,105	7,172	8,587	15,759	10
1877	Omitted as being abnormal in consequence of the famine.								
1878	447	1	4,982	4,542	85	10,057	8,855	18,912	11
Total...	4,636	256	26,891	22,110	5,071	58,964	81,647	140,611	...
Average...	463·6	25·6	2689·1	2211·0	507·1	5896·4	8164·7	14061·1	...
1879...	910	10	3,465	1,757	35	6,177	7,626	13,803	5
Increase...	446·4	...	775·9	...	...	280·6	...	...	...
Decrease...	..	15·6	...	454·0	472·1	...	538·7	258·1	...

APPENDIX V.

VITAL STATISTICS.

TABLE XII.—DEATHS.

Return shewing the Deaths from Special and other Diseases among Europeans for the year 1879.

Population.	3,613.																				
Months.	Cause of Death.																				Total of Males and Females.
	Small-pox.		Measles.		Fevers.		Dysentry.		Diarrhœa.		Cholera.		Injuries.		Other Diseases.		Total.				
	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F			
January											1				2	1	3	1			4
February															2		2				2
March							1								3		4				4
April	2				1										4		6	1			7
May					1			2	1	1					6	1	7	5			12
June					1										1		2				2
July					1		1								5	4	6	5			11
August							1		2	2			1		4	1	8	3			11
September					1				1	1					7		9	1			10
October									1				1	2	3	1	5	3			8
November										1					2	2	2	3			5
December					1				1	1					3	6	5	7			12
Total	2				3	3	3	2	6	6	1		2	2	42	16	59	29			88
Total of Males and Females	2				6		5		12		1		4		58		88				
Ratio per 1,000 of Population	0·5				1·6		1·3		3·3		0·2		1·1		16·0		24·3				

Of the foregoing Deaths, the following occurred in Hospitals :—

Monegar Choultry Hospital																					
General Hospital						1	1		3	1	1		2	2	18	2	25	6			31
Lock Hospital																					
Hospital for Women and Children	1				1			1									2	1			3
Lying-in-Hospital															2	1	2	1			3
Penitentiary Hospital																					
Lunatic Asylum															1		1				1
Royapettah Hospital																					
Total	1				1	1	1	1	3	1	1		2	2	21	3	30	8			38

VITAL STATISTICS.

TABLE XIII.—DEATHS.

Return shewing the Deaths from Special and other Diseases among East Indians, for the year 1879.

Population.	12,013																			
Months.	Cause of Death.																			Total of Males & Females.
	Small-pox.		Measles.		Fevers.		Dysentery.		Diarrhœa.		Cholera.		Injuries.		Other Diseases.		Total.			
	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F		
January	...	1	...	...	5	3	2	2	1	...	...	...	1	...	2	6	11	12	23	
February	1	2	...	...	...	...	...	...	1	...	...	...	...	...	5	3	7	5	12	
March	2	2	...	...	2	1	...	2	...	1	...	...	...	...	7	5	11	11	22	
April	1	3	...	...	2	2	...	...	1	2	...	...	...	...	10	7	14	14	28	
May	1	1	...	...	1	1	1	2	1	...	...	..	...	...	12	4	16	8	24	
June	3	...	...	...	1	1	...	...	3	2	...	...	...	...	13	7	20	10	30	
July	...	1	...	...	1	3	...	...	2	2	...	...	1	...	8	12	12	18	30	
August	...	1	...	1	2	3	...	...	2	1	...	...	...	...	11	12	15	18	33	
September	...	...	...	...	1	3	2	1	2	3	...	...	...	...	9	9	14	16	30	
October	...	...	...	...	2	1	1	...	...	...	...	...	...	...	12	11	15	12	27	
November	...	1	...	...	1	1	2	...	...	1	...	...	1	...	5	5	9	8	17	
December	...	...	...	...	1	...	...	1	1	2	...	...	...	...	9	11	11	14	25	
Total	8	12	...	1	19	19	8	8	14	14	...	...	3	...	103	92	155	146	301	
Total of Males and Females	20		1		38		16		28		...		3		195		301		...	
Ratio per 1,000 of Population	1·6		0·08		3·1		1·3		2·3		...		0·2		16·2		25·0		...	
Of the foregoing deaths, the following occurred in Hospitals :—																				
Monegar Choultry Hospital	...	...	...	...	...	...	...	...	...	...	...	...	...	...	3	...	3	...	3	
General Hospital	...	...	...	...	3	...	1	...	3	...	...	...	1	...	17	...	25	...	25	
Lock Hospital	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	
Hospital for Women & Children	...	1	...	...	...	2	...	1	...	...	...	...	...	...	2	7	2	11	13	
Lying-in Hospital	...	...	...	...	...	...	...	...	2	...	...	...	...	...	2	2	4	2	6	
Penitentiary Hospital	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	
Lunatic Asylum	...	...	...	...	...	...	...	...	1	...	...	...	...	...	1	2	2	2	4	
Royapettah Hospital	...	...	...	...	...	1	...	...	...	...	...	...	...	...	...	2	...	3	3	
Total	...	1	...	...	3	3	1	1	6	...	...	...	1	...	25	13	36	18	54	

APPENDIX V.

VITAL STATISTICS.

Table XIV.—Deaths.

Return shewing the Deaths from Special and other Diseases among Native Christians for the year 1879.

Population.	21,441.																				
Months.	Cause of Death.																				Total of Males and Females.
	Small-pox.		Measles.		Fevers.		Dysentery.		Diarrhœa.		Cholera.		Injuries.		Other Diseases.		Total.				
	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F			
January	2	...	...	...	9	7	2	3	...	3	...	...	...	...	14	10	27	23			50
February	...	...	...	...	1	8	4	2	...	1	...	...	...	...	6	10	11	21			32
March	...	2	...	...	1	9	1	3	1	2	...	...	...	...	7	10	10	26			36
April	1	1	...	...	1	5	4	4	1	...	...	...	...	...	9	10	16	20			36
May	...	1	...	...	5	9	3	3	...	1	...	...	1	...	16	11	25	25			50
June	...	1	...	...	9	9	2	4	...	2	...	...	...	...	9	9	20	25			45
July	2	1	...	...	6	5	1	4	2	2	...	...	...	...	15	14	26	26			52
August	3	...	...	...	5	3	4	4	3	2	...	...	...	...	13	19	28	28			56
September	...	1	...	...	9	5	1	6	3	2	...	...	...	...	16	17	29	31			60
October	2	2	...	...	3	8	6	4	1	1	...	...	1	...	29	12	42	27			69
November	...	1	...	...	8	3	4	7	...	...	...	...	...	1	21	19	33	31			64
December	1	1	...	...	3	8	5	2	1	1	...	...	...	...	23	20	33	32			65
Total...	11	11	...	...	60	79	37	46	12	17	...	...	2	1	178	161	300	315			615
Total of Males and Females...	22		...		139		83		29		...		3		339		615				...
Ratio per 1,000 of Population ...	1·2		...		6.4		3·8		1·3		...		0·1		15·8		28·6				...
Of the foregoing deaths, the following occurred in Hospitals:—																					
Monegar Choultry Hospital...	...	...	...	...	...	...	4	2	...	4	...	...	...	...	6	10	10	16			26
General „ ...	...	...	...	...	1	...	1	...	2	...	...	...	2	...	14	1	20	1			21
Lock „ ...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...			...
Hospital for Women and Children ...	...	...	...	...	...	...	1	...	2	...	...	...	...	...	4	5	4	8			12
Lying-in-Hospital ...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	5	4	5	4			9
Penitentiary Hospital ...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...			...
Lunatic Asylum ...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...			...
Royapettah Hospital ...	...	1	...	...	1	...	...	...	...	...	...	...	...	...	2	...	3	1			4
Total...	...	1	...	...	2	...	5	3	2	6	...	...	2	...	31	20	42	30			72

VITAL STATISTICS.

TABLE XV.—DEATHS.

Return shewing the Deaths from Special and other Diseases among Mahomedans, for the year 1879.

Population.	50,964																				
Months.	Cause of Death.																				Total of Males & Females.
	Small-pox.		Measles.		Fevers.		Dysentery.		Diarrhœa.		Cholera.		Injuries.		Other Diseases.		Total.				
	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F			
January	2	3	..	...	15	14	2	11	...	1	...	4	1	1	43	44	63	78	141		
February	8	5	...	...	16	13	6	9	...	2	...	...	...	...	42	48	72	77	149		
March	9	5	...	...	20	22	5	5	...	3	...	...	3	1	38	37	75	73	148		
April	14	12	...	...	12	16	5	7	2	3	...	...	...	...	50	44	83	82	165		
May	3	8	...	...	9	14	2	4	...	3	...	...	1	...	40	34	55	63	118		
June	1	2	...	...	16	7	7	3	1	2	...	...	...	...	30	41	55	55	110		
July	3	10	...	...	8	13	6	6	3	4	...	...	1	...	45	42	66	75	141		
August	3	3	...	...	19	15	5	5	3	4	...	...	...	...	58	40	88	67	155		
September	2	1	...	...	10	9	4	5	1	3	...	...	...	...	43	40	60	58	118		
October	4	1	...	...	13	8	7	3	3	...	...	...	1	...	49	44	77	56	133		
November	2	4	...	...	14	10	4	8	2	...	...	...	...	...	41	47	63	69	132		
December	5	4	...	...	16	14	4	6	2	3	...	1	1	1	55	58	83	87	170		
Total...	56	58	...	...	168	155	57	72	17	28	...	5	8	3	534	519	840	840	1,680		
Total of Males and Females	114		...		323		129		45		5		11		1,053		1,680		...		
Ratio per 1,000 of Population	2·2		...		6·3		2·5		0·8		0·09		0·2		20·6		32 9		...		
Of the foregoing deaths, the following occurred in Hospitals :—																					
Monegar Choultry Hospital	...	...	..	...	1	...	2	4	...	5	...	...	2	...	5	12	10	21	31		
General Hospital ...	...	...	...	...	...	...	3	...	3	...	...	...	1	...	6	...	13	...	13		
Lock Hospital ...	...	...	...	...	...	..	...	...	...	...	...	...	...	...	...	...	...	...	...		
Hospital for Women & Children	...	...	...	...	...	...	..	...	...	...	...	...	...	...	...	4	...	4	4		
Lying-in Hospital ...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	4	2	4	2	6		
Penitentiary Hospital...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	2	...	2	...	2		
Lunatic Asylum ...	...	...	...	...	...	...	...	...	...	...	...	...	...	1	2	1	2	2	4		
Royapettah Hospital ...	...	...	...	...	...	...	1	...	...	...	...	...	1	...	8	6	10	6	16		
Total...	...	...	...	...	1	...	6	4	3	5	...	...	4	1	27	25	41	35	76		

APPENDIX V.

VITAL STATISTICS.

TABLE XVI.—DEATHS.

Return shewing the Deaths from Special and other Diseases among Hindus, for the year 1879.

Population	3,09,521																		
Months.	Cause of Death.																		
	Small-pox.		Measles.		Fevers.		Dysentery.		Diarrhœa.		Cholera.		Injuries.		Other Diseases.		Total.		Total of Males and Females.
	M.	F.	M	F.	M.	F.	M.	F.	M.	F.	M	F.	M	F.	M.	F.	M.	F.	
January	23	15	...	...	158	157	62	58	24	19	19	8	5	3	270	233	561	493	1,054
February	58	60	1	1	116	105	33	31	20	21	...	...	5	8	215	195	448	421	869
March	68	74	...	1	86	106	33	31	13	12	...	...	10	2	207	170	417	396	813
April	66	71	1	1	101	105	37	29	17	16	...	2	5	1	189	195	416	420	836
May	31	37	...	...	110	101	40	31	12	23	...	...	4	4	235	193	432	389	821
June	12	23	...	1	92	112	30	25	18	16	...	...	3	2	221	184	376	368	744
July	17	21	...	1	110	125	44	31	21	18	...	...	3	8	205	241	400	445	845
August	15	24	1	...	106	147	54	49	25	24	...	...	4	4	270	256	475	504	979
September	21	17	...	...	126	143	41	50	13	34	...	...	5	..	292	278	498	522	1,020
October	26	23	...	1	114	142	38	49	18	16	...	...	6	4	260	295	462	530	992
November	12	14	...	...	136	136	44	38	12	13	...	...	7	5	292	324	503	530	1,033
December	6	13	...	...	158	167	54	47	17	9	...	...	2	6	350	284	587	526	1,113
Total...	355	397	3	6	1,413	1,546	510	469	210	221	19	10	59	47	3,006	2,848	5,575	5,544	11,119
Total of Males and Females... ...	752		9		2,959		979		431		29		106		5,854		11,119		...
Ratio per 1,000 of Population ...	2·4		0·02		9·5		3·1		1·3		6·08		0·3		18·9		35·9		...
Of the foregoing deaths the following occurred in Hospitals :—																			
Monegar Choultry Hospital	2	2	...	1	6	3	26	24	20	36	...	...	4	4	98	113	156	183	339
General Hospital ...	1	...	...	...	3	...	13	...	14	...	1	...	7	1	90	1	129	2	131
Lock Hospital ...	...	...	...	...	...	1	...	...	...	...	...	...	...	...	...	7	...	8	8
Hospital for Women and Children ..	1	...	...	.	...	1	1	1	...	4	...	1	...	4	4	29	6	40	46
Lying-in-Hospital ...	...	...	...	...	...	3	...	1	...	...	...	...	...	...	24	32	24	36	60
Penitentiary Hospital	...	...	...	...	...	...	...	...	2	1	...	...	1	...	7	1	10	2	12
Lunatic Asylum ...	...	...	...	...	...	...	1	...	2	...	...	...	...	...	16	7	19	7	26
Royapettah Hospital..	...	...	...	...	...	...	6	4	2	3	...	1	2	...	14	12	24	20	44
Total...	4	2	...	1	9	8	47	30	40	44	1	2	14	9	253	202	368	298	666

VITAL STATISTICS.

TABLE XVII.—DEATHS.

Return shewing the Deaths from Special and other Diseases among all Classes, for the year 1879.

Population.	3,97,552																		
Months.	Cause of Death.																		Total of Males and Females.
	Small-pox.		Measles.		Fevers.		Dysentery.		Diarrhœa.		Cholera.		Injuries.		Other Diseases.		Total.		
	M.	F.	M	F.	M.	F.	M.	F.	M.	F.	M	F.	M.	F.	M.	F.	M.	F.	
January	27	19	...	...	187	181	68	74	25	23	20	12	7	4	331	294	665	607	1,272
February	67	67	1	1	133	126	43	42	21	24	...	...	5	8	270	256	540	524	1,064
March	79	83	...	1	109	138	40	41	14	18	...	...	13	3	262	222	517	506	1,023
April	84	87	1	1	116	129	46	40	21	21	...	2	5	1	262	256	535	537	1,072
May	35	47	...	...	125	126	46	42	14	28	...	..	7	4	308	243	535	490	1,025
June	16	31	...	1	119	129	39	32	22	22	...	...	3	2	274	241	473	458	931
July	22	33	...	1	125	147	52	41	28	26	...	...	5	8	278	313	510	569	1,079
August	21	29	1	1	132	168	64	58	35	33	...	...	4	4	357	328	614	620	1,234
September	23	19	...	...	147	160	48	62	20	43	...	...	5	...	367	344	610	628	1,238
October	32	26	...	1	152	159	52	56	23	17	...	...	9	6	353	363	601	628	1,229
November	14	20	...	...	159	150	54	53	14	15	...	..	8	6	361	397	610	641	1,251
December	12	18	...	...	179	189	63	56	22	16	...	1	3	7	440	379	719	666	1,385
Total...	432	478	3	7	1,663	1,802	615	597	259	286	20	15	74	53	3,863	3,636	6,929	6,874	13,803
Total of Males and Females	910		10		3,465		1,212		545		35		127		7,499		13,803		...
Ratio per 1,000 of Population...	2·2		0·02		8·7		3·0		1·3		0·08		0·3		18·8		34·7		...
Of the foregoing deaths, the following occurred in Hospitals :—																			
Monegar Choultry Hospital	2	2	...	1	7	3	32	30	20	45	...	..	6	4	112	135	179	220	399
General Hospital ...	1	...	...	...	7	1	19	...	25	1	2	...	13	3	145	4	212	9	221
Lock „ ...	...	...	...	...	...	1	...	...	...	...	...	...	...	...	...	7	...	8	8
Hospital for Women & Children	2	1	...	...	1	3	1	4	...	6	...	1	...	4	10	45	14	64	78
Lying-in-Hospital ...	...	...	...	...	...	3	...	1	2	...	...	...	...	...	37	41	39	45	84
Penitentiary Hospital ..	...	...	...	...	...	...	...	...	2	1	...	...	1	...	9	1	12	2	14
Lunatic Asylum .	...	...	...	...	...	...	1	...	2	...	...	...	...	...	21	11	24	11	35
Royapettah Hospital ...	...	1	...	...	1	1	7	4	3	3	..	1	3	1	23	19	37	30	67
Total...	5	4	...	1	16	12	60	39	54	56	2	2	23	12	357	263	517	389	906

APPENDIX V.

VITAL STATISTICS.

TABLE XVIII.—DEATHS.

Return shewing the Deaths among Europeans in each Village of the City of Madras, for the year 1879.

Municipal Divisions.	Names of Villages.	EUROPEANS.																										Total of Males and Females.
		January.		February.		March.		April.		May.		June.		July.		August.		September.		October.		November.		December.		Total.		
		M	F.	M	F.	M	F.	M	F.	M	F.	M	F.	M	F	M	F.	M	F.	M	F.	M	F	M	F	M	F	
1	Tondiarpettah	...	...	...	..	...	...	...	...	...	...	...	...	...	...	...	...	1	...	...	...	...	...	...	...	1	...	1
	Washermenpettah	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	Royapooram	1	...	...	...	...	...	...	...	...	...	1	...	...	1	...	...	1	...	...	...	1	...	...	...	2	3	5
	Cashmode	...	...	...	...	...	...	...	...	...	...	1	...	...	...	...	...	...	...	...	...	...	...	...	...	1	...	1
	Total...	1	...	...	...	...	...	...	...	...	...	1	1	...	1	...	...	2	...	...	...	1	...	...	...	4	3	7
2	Podoo Naick's Pettah	...	...	1	..	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	1	...	1
	Big Parcherry	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	1	...	...	...	...	...	...	...	1	...	1
	John Pereira's Garden	...	...	...	...	...	...	...	...	1	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	1	...	1
	Total...	...	...	1	...	...	...	...	...	1	..	...	...	...	...	...	...	1	...	...	...	...	...	...	...	3	...	3
3	Moothealpettah	...	...	...	...	...	...	...	...	...	...	...	...	1	1	...	1	...	...	1	...	...	...	2	2	4	6	
	Uttapauliam	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	Fort Saint George	...	...	...	...	...	...	...	...	...	...	...	...	...	..	1	...	2	...	...	...	...	...	...	...	3	..	3
	Total ..	...	...	...	...	...	...	...	...	...	...	...	...	1	1	1	1	2	...	1	...	...	...	2	5	4	9	
4	Gunpowder Mills	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	Perambore	...	...	...	...	...	...	...	...	...	...	...	...	1	...	...	...	...	...	...	1	...	..	...	...	1	1	2
	Viasarapaudy	...	...	...	...	...	...	...	...	...	...	1	...	...	...	...	...	...	...	...	...	...	...	...	...	...	1	1
	Total...	...	...	...	...	...	...	...	...	...	...	1	...	1	..	...	...	...	...	...	1	...	...	...	...	1	2	3
5	Choolay	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	Pursewalkum	...	...	...	...	...	...	...	...	...	...	1	...	...	...	...	...	1	...	...	...	...	...	1	...	1	2	3
	Pereamettoo	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	New Town	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	1	...	1	...	2	2	
	Vepery...	...	...	...	...	1	...	2	...	...	...	...	...	1	...	1	...	1	...	...	...	...	...	...	...	6	...	6
	Poodoopettah	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	Egmore	...	...	...	..	...	...	1	...	...	...	...	...	...	...	...	...	...	...	1	...	...	...	1	2	1	3	
	Camalecswarapooram	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	Total...	...	...	...	..	1	...	3	...	...	...	1	...	1	...	1	1	1	...	1	...	...	1	1	2	9	5	14
6	Kilpaukum	..	1	...	..	...	...	...	...	...	...	...	...	...	1	...	...	...	...	...	...	...	...	...	...	...	2	2
	Chetput	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	Nungumbakum	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	Mackey's Garden	...	...	..	..	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	Total...	...	1	...	...	...	...	...	...	...	...	...	...	...	1	...	1	...	...	...	...	...	...	...	...	...	3	3
7	Poodoopaukum	...	...	...	...	...	...	1	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	1	...	1
	Chintadripettah	...	...	...	...	...	...	...	...	1	...	...	...	...	...	...	...	...	...	...	...	..	...	1	...	2	...	2
	Narasingapooram	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	Triplicane	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	Therooveteeswaranpettah ...	...	...	...	..	...	...	...	...	...	...	...	...	...	...	1	...	...	...	...	...	...	...	...	...	1	...	1
	Total...	...	...	...	...	...	...	1	...	1	...	...	...	...	...	1	...	...	...	...	...	...	...	1	...	4	...	4
8	Saint Thomé	1	...	...	...	...	...	...	...	1	1	..	...	...	..	...	...	1	1	...	...	...	...	2	3	4	7	
	Alwarpettah	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	Royapettah	..	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	Meer Saib's Pettah	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	Kistuampettah	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	Thanampettah	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	Total...	1	...	...	...	...	...	...	...	1	1	...	...	...	...	...	...	1	1	...	...	...	...	2	3	4	7	
	General Total...	2	1	1	..	1	...	4	1	3	3	1	...	3	3	3	3	7	1	2	1	...	2	2	6	29	21	50
Hospitals.	Monegar Choultry Hospital... ...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	General ,, ...	1	...	1	...	2	...	1	...	4	1	1	..	2	2	5	...	2	...	2	2	2	1	2	...	25	6	31
	Lock ,, ...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	Hospital for Women and Children ...	...	...	...	...	...	...	1	...	...	1	...	...	...	...	...	...	...	...	...	...	...	...	1	...	2	1	3
	Lying-in-Hospital	...	...	...	...	1	...	...	...	...	...	...	...	...	...	...	...	...	...	1	...	...	...	1	2	1	3	
	Penitentiary Hospital	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	Lunatic Asylum	...	...	...	...	...	...	...	...	...	...	...	...	1	...	...	...	...	...	...	...	...	...	...	...	1	...	1
	Royapettah Hospital...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	Total...	1	...	1	...	3	...	2	...	4	2	1	...	3	2	5	...	2	...	3	2	2	1	3	1	30	8	38
	General Total...	3	1	2	...	4	...	6	1	7	5	2	..	6	5	8	3	9	1	5	3	2	3	5	7	59	29	88

APPENDIX V.

VITAL STATISTICS.

TABLE XIX.—DEATHS.

Return shewing the Deaths among East Indians in each Village of the City of Madras, for the year 1879.

Municipal Divisions.	Names of Villages.	East Indians.																																		Total of Males and Females.
		January.		February.		March.		April.		May.		June.		July.		August.		Septr.		October.		November		December.		Total.										
		M	F	M	F	M	F	M	F.	M	F.	M	F.	M	F.	M	F.	M	F.	M	F.	M	F.	M	F.	M	F.										
1	Tondiarpettah	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...									...
	Washermenpettah	...	...	...	...	...	...	...	1	1	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	1	1									2
	Royapooram	...	...	1	...	...	1	...	...	...	...	2	...	...	3	...	...	...	...	...	...	1	1	...	1	...	5	4									9
	Cashmode	..	..	...	...	...	...	...	...	...	...	..	...	...	...	...	...	...	...	...	1	...	...	...	...	...	1									1
	Total...	...	...	1	...	...	1	...	1	1	...	2	...	...	3	...	..	...	..	...	1	1	...	1	...	6	6									12
2	Peddoo Naick's Pettah ...	...	...	...	...	...	1	...	...	...	...	1	...	2	4	2	4	1	2	1	...	...	1	2	2	9	14									23
	Big Parcherry	...	...	...	1	...	...	1	1	...	...	1	1	1	1	1	3	1	...	1	1	1	...	2	...	9	8									17
	John Pereira's Garden ...	...	1	...	...	...	...	1	...	1	...	...	1	...	.	...	...	...	...	...	...	...	...	...	...	2	2									4
	Total...	...	1	...	1	...	1	2	1	1	...	2	2	3	5	3	7	2	2	2	1	1	1	4	2	20	24									44
3	Mootheal Pettah	1	4	3	3	4	4	2	2	2	1	7	3	4	3	4	5	2	2	4	3	2	1	1	3	36	34									70
	Uttapauliam	...	..	...	...	...	...	...	...	...	..	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...									...
	Fort Saint George ...	..	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...									...
	Total...	1	4	3	3	4	4	2	2	2	1	7	3	4	3	4	5	2	2	4	3	2	1	1	3	36	34									70
4	Gunpowder Mills	...	...	..	..	...	...	...	...	...	...	...	...	...	...	...	...	1	...	...	...	...	...	..	...	1	...									1
	Perambore	2	2	...	1	...	...	1	...	1	...	...	1	...	1	1	...	...	...	...	...	...	1	...	...	5	6									11
	Viasarapaudy	...	1	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	1									1
	Total...	2	3	...	1	...	...	1	...	1	...	...	1	...	1	1	...	1	...	...	...	...	1	...	...	6	7									13
5	Choolay	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	..	...	...	..	...	...	...	...	...									...
	Pursewalkum	2	1	...	..	...	...	1	2	...	...	...	2	2	1	...	...	...	1	...	...	1	1	...	2	6	10									16
	Peramettoo	...	...	...	...	1	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	1	...	...	1	1									2
	New Town	...	...	...	...	1	...	...	2	2	1	1	...	...	...	1	...	1	2	...	...	1	1	...	1	7	7									14
	Vepery	...	1	2	...	1	...	1	2	1	1	...	...	...	1	1	...	1	2	2	...	1	1	...	1	10	9									19
	Poodoopettah	...	...	1	..	...	...	1	...	...	...	..	1	...	...	...	1	...	1	1	1	...	1	...	..	3	5									8
	Egmore	...	...	...	...	1	...	...	...	...	1	1	...	...	1	...	...	...	...	...	...	...	...	...	...	2	2									4
	Comaleeswarapuram ...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...									...
	Total...	2	2	3	...	4	...	3	6	3	3	2	3	2	3	2	1	2	6	3	1	3	5	...	4	29	34									63
6	Kilpaukum	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	1	...	...	...	...	...	...	...	...	...	1									1
	Chetput...	...	...	...	...	...	...	...	.	...	...	...	...	...	...	...	..	...	...	...	...	...	...	...	...	...	...									...
	Nungumbakum	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	1	...	...	...	...	...	...	..	...	...	1									1
	Mackey's Garden	...	..	...	...	..	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...									...
	Total...	..	..	...	...	...	...	...	...	...	...	...	...	...	...	...	2	...	...	...	...	...	...	...	...	...	2									2
7	Poodoopaukum...	1	1	..	...	...	1	...	...	...	..	...	1	1	...	...	i	..	1	...	..	...	...	1	1	3	6									9
	Chintadripettah	1	...	...	...	...	...	1	...	...	...	1	...	...	...	...	1	2	...	...	1	...	...	...	1	5	3									8
	Narasingapuram ...	...	...	...	...	...	1	2	...	2	...	1	...	...	...	...	1	1	1	...	1	..	...	...	1	6	5									11
	Triplicane	...	1	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	1	...	...	...	...	1	1	2									3
	Theroovateeswaranpettah ...	..	.	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...									...
	Total...	2	2	...	...	...	2	3	...	2	...	2	1	1	...	...	3	3	2	1	2	..	...	1	4	15	16									31
8	Saint Thomé	1	..	...	...	...	...	...	...	...	...	1	...	1	...	1	...	...	1	...	...	...	...	...	1	4	2									6
	Alwarpettah	...	.	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...									...
	Royapettah	...	...	...	...	...	...	...	1	...	...	1	...	...	1	1	..	...	1	1	...	..	...	...	..	3	3									6
	Meer Saib's Pettah	..	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...									...
	Kistnampettah...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...									..
	Thanampettah	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...									...
	Total...	1	...	...	...	...	...	1	...	...	2	...	1	1	2	...	...	2	1	...	...	...	...	1	7	5	12									
	General Total...	8	12	7	5	8	8	11	11	10	4	17	10	11	16	12	18	10	14	11	8	7	8	7	14	119	128	247								
Hospitals.	Monegar Choultry Hospital ...	...	...	...	..	..	...	...	...	...	...	...	...	...	...	1	...	1	...	1	..	..	...	...	...	3	...	3								
	General ,, ...	3	...	...	...	2	...	3	...	4	...	2	...	...	...	2	...	1	...	3	...	2	...	3	...	25	...	25								
	Lock ,, ...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	..	...	...	...	...	...	...	...	...	...	...	...	...								
	Hospital for Women & Children	...	...	...	...	1	2	...	3	1	3	..	...	...	1	...	...	...	1	...	1	...	...	...	...	2	11	13								
	Lying-in Hospital	...	...	...	...	...	...	...	...	1	...	...	...	1	...	...	...	2	...	...	2	...	...	...	...	4	2	6								
	Penitentiary Hospital... ...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...								
	Lunatic Asylum	...	...	...	...	...	1	...	...	...	1	1	...	...	...	...	...	...	...	...	...	...	...	1	...	2	2	4								
	Royapettah Hospital	...	...	...	...	...	...	...	...	...	...	...	...	1	...	...	...	1	...	1	...	...	...	...	...	...	3	3								
	Total...	3	...	...	...	3	3	3	3	6	4	3	...	1	2	3	...	4	2	4	4	2	...	4	...	36	18	54								
	General Total...	11	12	7	5	11	11	14	14	16	8	20	10	12	18	15	18	14	16	15	12	9	8	11	14	155	146	301								

APPENDIX V.

VITAL STATISTICS.

TABLE XX.—DEATHS.

Return shewing the Deaths among Native Christians in each Village of the City of Madras, for the year 1879.

Municipal Divisions.	Names of Villages.	NATIVE CHRISTIANS.																										Total of Males and Females.
		January.		February.		March.		April.		May.		June.		July.		August.		September.		October.		November.		December.		Total.		
		M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M.	F.	
1	Tondiarpettah	1	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	1	...	1
	Washermenpettah ...	1	...	1	...	...	1	...	...	1	...	...	...	2	...	...	1	2	3	..	...	2	3	1	2	10	10	20
	Royapuram	3	3	1	3	...	2	...	3	4	2	4	6	...	2	4	1	2	1	3	4	6	2	3	1	30	30	60
	Cashmode	3	...	1	2	...	4	2	1	2	2	4	...	6	6	1	2	5	3	4	5	3	1	5	5	36	31	67
	Total...	8	3	3	5	...	7	2	4	7	4	8	6	8	8	5	4	9	7	7	9	11	6	9	8	77	71	148
2	Peddoo Naick's Pettah ...	...	...	...	...	...	2	...	..	1	...	...	...	...	...	1	...	...	2	1	3	...	1	...	...	4	8	12
	Big Parcherry	2	...	..	...	...	...	...	...	...	1	...	...	1	..	...	1	...	...	1	1	...	...	1	...	5	3	8
	John Pereira's Garden ...	1	1	...	...	1	1	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	1	2	3	5
	Total...	3	1	...	...	1	3	..	...	1	1	...	...	2	...	1	1	...	2	2	4	...	1	1	1	11	14	25
3	Moothealpettah ...	2	4	..	3	1	4	2	1	3	4	2	1	2	1	3	4	5	5	1	1	1	3	8	5	30	36	66
	Uttapauliam	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	Fort Saint George ...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	Total...	2	4	...	3	1	4	2	1	3	4	2	1	2	1	3	4	5	5	1	1	1	3	8	5	30	36	66
4	Gunpowder Mills ...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	..	...
	Perambore	...	...	...	...	...	...	...	...	1	...	...	...	..	...	...	...	1	...	1	...	...	...	...	...	3	...	3
	Viasarapaudy	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	..	...
	Total...	...	..	...	...	...	...	...	...	1	...	...	...	...	...	...	...	1	...	1	...	...	...	...	...	3	...	3
5	Choolay	..	...	1	...	...	...	...	1	...	1	...	...	1	...	1	...	...	...	2	...	...	...	1	...	2	6	8
	Pursewalkum	2	1	1	3	...	2	1	3	1	2	1	3	1	2	5	4	...	3	2	...	5	3	2	4	21	30	51
	Pereamettoo	...	...	...	...	1	...	...	1	...	...	...	...	...	2	1	...	1	...	3	...	...	...	...	...	6	3	9
	New Town	...	..	1	1	...	1	...	1	...	1	1	...	...	...	2	1	...	..	1	...	3	1	...	1	8	7	15
	Vepery	...	1	1	...	2	1	...	1	1	1	...	2	...	...	...	...	1	1	2	...	...	1	...	...	7	8	15
	Poodoopettah	2	2	1	2	...	1	2	2	4	1	2	5	1	...	3	4	...	...	2	2	...	3	3	...	20	22	42
	Egmore	...	...	...	...	...	...	...	...	...	1	...	...	1	1	...	...	1	...	...	...	1	1	...	...	3	3	6
	Camalceswarapuram ...	...	...	..	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	Total...	4	5	4	6	3	5	4	8	7	6	4	11	3	6	11	9	3	6	10	2	9	10	5	5	67	79	146
6	Kilpaukum	...	...	...	...	...	...	...	...	...	...	...	..	...	..	...	..	...	...	...	...	...	...	...	...	...	...	...
	Chetput	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	1	...	...	...	...	...	...	...	...	...	1	1
	Nungumbaukum ...	1	1	1	...	...	1	...	...	...	...	...	...	1	...	1	1	1	...	...	...	...	...	...	1	5	4	9
	Mackey's Garden ...	1	...	...	...	..	...	...	1	...	...	...	1	...	...	...	...	...	1	...	...	...	...	...	...	1	3	4
	Total...	2	1	1	.	...	1	...	1	...	..	...	1	1	...	1	2	1	1	...	...	...	...	...	1	6	8	14
7	Poodoopaukum ...	...	1	...	...	...	1	...	...	1	...	1	1	...	...	...	...	1	1	...	...	1	...	...	2	4	6	10
	Chintadripettah ...	1	2	...	2	1	...	1	2	2	1	...	...	2	2	1	1	1	1	6	1	2	3	1	1	18	16	34
	Narasingapuram ...	...	...	1	1	...	...	...	1	...	2	...	1	1	...	...	...	...	...	1	..	...	...	...	...	3	5	8
	Triplicane	...	1	..	...	1	1	...	...	...	...	...	1	...	...	1	1	1	1	1	...	...	1	...	1	4	7	11
	Therooveteeswaranpettah	...	..	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	1	...	...	...	...	...	1	1
	Total ..	1	4	1	3	2	2	1	3	3	3	1	3	3	2	2	2	3	3	8	2	3	4	1	4	29	35	64
8	Saint Thomé	1	...	..	1	1	1	...	3	1	2	3	3	2	3	3	1	3	2	2	4	1	3	3	5	20	28	48
	Alwarpettah	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	Royapettah	1	...	...	...	1	1	...	...	...	1	...	...	1	1	...	...	...	...	3	1	2	1	1	1	9	6	15
	Meer Saib's Pettah ...	1	...	...	1	...	...	1	...	..	1	...	...	...	1	...	..	...	...	...	...	...	...	...	...	2	3	5
	Kistnampettah... ...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	1	1	...	...	...	...	...	...	...	...	1	1	2
	Thanampettah	...	1	...	...	...	..	2	...	...	1	...	...	1	...	...	..	...	...	...	1	...	1	...	...	3	4	7
	Total...	3	1	...	2	2	2	3	3	1	5	3	3	4	5	4	2	3	2	5	6	3	5	4	6	35	42	77
	General Total...	23	19	9	19	9	24	12	20	23	23	18	25	23	22	27	24	25	26	34	24	27	29	28	30	258	285	543
Hospitals.	MonegarChoultryHospital	2	3	2	2	...	1	...	...	...	...	1	...	...	3	1	1	...	2	1	2	1	1	2	1	10	16	26
	General ,, ...	2	...	...	...	1	...	2	...	2	...	1	...	1	...	...	1	2	...	5	...	1	...	3	...	20	1	21
	Lock ,, ...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	..	..	...
	Hospital for Women and Children	...	1	...	...	...	1	...	...	...	1	...	...	...	1	...	1	1	2	2	1	1	..	...	...	4	8	12
	Lying-in Hospital	...	...	...	...	...	...	1	...	...	...	...	...	1	...	...	1	1	1	...	...	2	1	...	1	5	4	9
	Penitentiary Hospital ...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	Lunatic Asylum ...	...	...	..	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	Royapettah Hospital .	..	..	...	..	...	...	1	...	...	1	...	...	1	...	...	...	...	...	...	...	1	...	...	...	3	1	4
	Total...	4	4	2	2	1	2	4	...	2	2	2	...	3	4	1	4	4	5	8	3	6	2	5	2	42	30	72
	General Total...	27	23	11	21	10	26	16	20	25	25	20	25	26	26	28	28	29	31	42	27	33	31	33	32	300	315	615

TABLE XXI.—DEATHS.

APPEN

VITAL

TABLE

Return shewing the Deaths among Hindus in each

Municipal Divisions.	Names of Villages.	January.		Feb.		March.		April.		May.		June.	
		M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.
1	Tondiarpettah	4	2	2	2	3	3	2	1	3	4	4	5
	Washermenpettah... ...	58	52	37	36	37	31	30	29	31	31	33	19
	Royapuram	33	24	11	12	29	16	18	15	13	24	18	27
	Cashmode	17	18	18	7	12	13	16	9	22	2	14	11
	Total...	112	96	68	57	81	63	66	54	69	61	69	62
2	Peddoo Naick's Pettah. ...	126	121	109	140	100	105	102	106	98	94	61	73
	Big Parcherry... ...	...	1	...	...	...	...	...	...	...	...	...	...
	John Pereira's Garden ...	...	...	...	...	...	...	...	...	...	...	...	...
	Total...	126	122	109	140	100	105	102	106	98	94	61	73
3	Moothealpettah	66	46	59	48	44	43	48	67	52	46	44	52
	Uttapaulium	...	...	...	...	...	...	...	...	...	...	...	...
	Fort Saint George ...	...	...	...	...	...	...	...	...	...	...	...	...
	Total...	66	46	59	48	44	43	48	67	52	46	44	52
4	Gunpowder Mills	...	...	...	...	...	...	...	...	...	...	...	...
	Perambore	11	6	7	5	4	3	4	9	3	1	3	9
	Viasarapaudy	4	3	2	...	1	1	3	2	1	4	3	2
	Total...	15	9	9	5	5	4	7	11	4	5	6	11
5	Choolay	13	16	21	11	15	21	22	15	13	11	15	7
	Pursewalkum ...	33	23	31	18	24	20	18	20	23	25	21	28
	Paream ettoo ...	6	8	8	4	5	7	3	8	4	10	5	9
	New Town... ...	...	...	...	...	...	...	...	...	...	...	...	...
	Vepery	...	3	3	1	...	1	1	...	1	2	1	3
	Poodoopettah ...	1	5	2	2	5	1	...	2	3	5	3	2
	Egmore	5	3	3	4	5	3	1	1	11	..	2	3
	Comaleeswarapuram ...	5	10	4	1	3	1	3	3	5	5	5	2
	Total...	63	68	72	41	57	54	48	49	60	58	52	54
6	Kilpaukum	2	...	...	1	2	2	2	...	3	3	...	2
	Chetput	5	3	3	3	4	1	5	2	2	1	1	3
	Nungumbaukum	2	3	...	5	10	2	4	7	6	6	3	8
	Mackey's Garden... ...	1	1	1	1	2	..	4	2	...	...	...	1
	Total...	10	7	4	10	18	5	15	11	11	10	4	14
7	Poodoopaukum	8	13	14	6	7	9	7	11	10	8	12	7
	Chintadripettah	19	25	13	13	13	17	13	16	12	17	25	9
	Narasingapuram	1	1	1	2	2	1	4	3	4	...	4	2
	Triplicane	42	31	25	30	23	17	23	30	29	26	26	22
	Theroovateeswaranpettah ...	3	4	3	2	2	5	2	2	3	5	3	5
	Total...	73	74	56	53	47	49	49	62	58	56	70	45
8	Saint Thomé	29	20	17	20	20	25	25	23	30	22	23	22
	Alwarpettah	3	3	2	1	1	4	3	2	3	1	5	...
	Royapettah	7	3	3	6	5	...	10	7	3	4	5	3
	Meersaib's Pettah ...	5	6	6	2	6	3	4	3	3	2	1	1
	Kistnampettah	7	4	6	3	4	9	4	3	6	3	3	3
	Thanampettah	5	6	3	3	2	3	8	5	2	5	1	2
	Total...	56	42	37	40	38	49	54	43	47	37	38	31
	General Total...	521	464	414	394	390	372	389	403	399	367	344	342
Hospitals.	Monegar Choultry Hospital ...	15	19	18	14	14	12	11	8	14	16	15	18
	General „ ...	12	...	13	1	5	...	9	...	11	...	10	...
	Lock „ ...	...	2	...	...	...	...	...	...	...	1	...	1
	Hospital for Women and Children ...	..	3	1	8	...	7	...	7	2	2	3	4
	Lying-in Hospital ...	1	2	1	2	3	2	2	2	2	...	...	1
	Penitentiary Hospital ...	4	...	1	...	...	...	...	...	...	2	2	...
	Lunatic Asylum	5	1	...	1	1	...	5	..	...	...	...	2
	Royapettah Hospital ...	3	2	...	1	4	3	...	...	4	1	2	...
	Total...	40	29	34	27	27	21	27	17	33	22	32	26
	General Total...	561	493	448	421	417	396	416	420	432	389	376	368

STATISTICS.

XXI.—DEATHS.

Village of the City of Madras, for the year 1879.

DUS.														
July.		August.		September.		October.		November.		December.		Total.		Total of Males and Females.
M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	
4	4	3	2	5	8	6	16	15	9	8	18	59	74	133
45	39	34	41	43	48	38	44	38	38	61	47	485	455	940
22	14	20	23	25	24	16	31	26	28	37	26	268	264	532
17	10	22	11	20	11	17	12	17	17	14	26	206	147	353
88	67	79	77	93	91	77	103	96	92	120	117	1,018	940	1,958
76	99	79	126	102	121	95	113	92	103	125	111	1,165	1,312	2,477
...	...	...	...	...	...	...	...	...	...	...	...	...	1	1
...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
76	99	79	126	102	121	95	113	92	103	125	111	1,165	1,313	2,478
46	60	63	65	52	61	53	74	48	69	65	46	640	677	1,317
...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
46	60	63	65	52	61	53	74	48	69	65	46	640	677	1,317
...	...	...	...	...	...	...	...	...	...	...	...	...	..	...
3	7	7	10	4	11	9	10	10	10	9	9	74	90	164
...	1	...	1	3	5	3	...	2	4	3	2	25	25	50
3	8	7	11	7	16	12	10	12	14	12	11	99	115	214
12	12	19	19	21	17	16	12	13	25	24	22	204	188	392
28	30	35	41	19	26	25	32	38	38	41	31	336	332	668
5	7	8	10	9	12	6	14	3	7	5	10	67	106	173
...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
1	1	...	2	5	3	2	3	3	...	1	...	18	19	37
...	3	5	3	3	6	1	1	3	3	4	1	30	34	64
4	5	11	4	5	3	5	9	10	5	4	1	66	41	107
4	3	4	3	7	4	4	5	5	7	5	3	54	47	101
54	61	82	82	69	71	59	76	75	85	84	68	775	767	1,542
1	...	3	2	...	1	...	2	...	...	...	...	13	13	26
4	...	3	1	1	...	...	...	1	1	2	4	31	19	50
5	6	4	5	7	7	3	6	4	5	3	6	56	66	122
...	2	1	1	3	3	2	1	3	2	2	2	19	16	35
10	8	11	9	11	11	5	9	8	8	12	12	119	114	233
10	13	17	7	10	7	13	10	6	9	13	7	127	107	234
21	19	27	21	23	27	23	25	18	26	23	30	230	245	475
1	3	2	4	3	2	2	5	3	1	5	2	32	26	58
22	33	35	34	35	40	36	25	42	43	45	29	383	360	743
7	4	...	1	3	3	7	5	4	4	5	5	42	45	87
61	72	81	67	74	79	81	70	73	83	91	73	814	783	1,597
25	24	21	27	35	17	29	33	33	17	41	38	328	288	616
1	3	1	3	...	6	...	3	6	5	3	6	28	37	65
7	8	7	2	6	5	6	4	6	9	5	12	70	63	133
2	5	3	3	4	6	2	5	3	4	4	2	43	47	90
6	4	2	2	7	2	7	3	5	3	2	2	59	46	105
3	3	6	5	4	4	3	7	7	8	5	5	49	56	105
44	47	40	42	56	40	47	55	60	46	60	65	577	537	1,114
382	422	442	479	464	490	429	510	464	500	569	503	5,207	5,246	10,453
9	14	14	10	11	19	14	15	16	25	5	13	156	183	339
6	...	12	1	15	...	12	...	15	...	9	...	129	2	131
...	1	...	...	...	1	...	...	...	...	...	2	...	8	8
...	4	...	2	...	1	...	...	...	...	...	2	6	40	46
1	3	4	8	4	7	2	2	3	3	1	4	24	36	60
1	...	...	..	1	...	...	...	1	...	...	...	10	2	12
1	...	...	...	...	1	2	...	2	1	3	1	19	7	26
...	1	3	4	3	3	3	3	2	1	...	1	24	20	44
18	23	33	25	34	32	33	20	39	30	18	23	368	298	666
400	445	475	504	498	522	462	530	503	530	587	526	5,575	5,544	11,119

VITAL STATISTICS.

TABLE XXII.—DEATHS.

Return shewing the Deaths among Mahomedans in each Village of the City of Madras, for the year 1879.

Municipal Divisions.	Names of Villages.	MAHOMEDANS.																								Total of Males and Females.
		January.		February.		March.		April.		May.		June.		July.		August.		September.		October.		November.		December.		Total.		
		M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	
1	Tondiarpettah	..	..	..	1	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	1	..	1	1	2
	Washermenpettah	4	7	3	3	1	4	4	4	3	..	1	3	2	5	4	1	4	2	5	4	2	7	1	7	34	47	81
	Royapuram	3	1	1	1	1	3	..	2	2	2	1	6	3	3	5	8	6	4	1	3	2	2	4	5	29	40	69
	Cashmode	8	8	3	8	3	6	..	4	4	4	5	3	5	3	7	7	3	..	5	8	6	1	8	2	57	48	105
	Total..	15	16	7	13	5	12	4	10	9	6	7	12	10	11	16	16	13	6	11	10	10	10	14	14	121	136	257
2	Peddoo Naick's Pettah	1	3	2	1	1	...	6	5	2	1	..	..	2	4	2	1	1	1	3	2	4	1	1	2	25	21	46
	Big Parcherry	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	...
	John Pereira's Garden	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	...
	Total..	1	3	2	1	1	...	6	5	2	1	..	..	2	4	2	1	1	1	3	2	4	1	1	2	25	21	46
3	Moothealpettah	12	11	17	12	20	15	10	11	9	12	12	5	16	14	19	12	5	8	6	5	5	10	7	16	138	131	269
	Uttapauliam	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	...
	Fort Saint George	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	...
	Total..	12	11	17	12	20	15	10	11	9	12	12	5	16	14	19	12	5	8	6	5	5	10	7	16	138	131	269
4	Gunpowder Mills	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	...	...
	Perambore	..	..	3	1	2	3	1	3	1	3	6	3	5	4	6	4	2	1	3	2	1	1	1	1	31	26	57
	Viasarapaudy	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	...	...
	Total..	..	..	3	1	2	3	1	3	1	3	6	3	5	4	6	4	2	1	3	2	1	1	1	1	31	26	57
5	Choolay	..	2	1	2	..	2	..	1	..	1	..	1	..	2	..	2	3	1	..	1	2	..	..	1	6	16	22
	Pursewalkum	1	..	2	..	..	...	1	1	2	..	..	1	..	..	1	..	..	..	..	3	3	..	..	..	10	5	15
	Peresamettoo	1	1	1	1	2	..	1	..	1	..	1	..	..	..	..	1	..	1	..	..	1	1	1	..	9	5	14
	New Town	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	...	...
	Vepery	..	1	1	..	..	..	..	1	1	1	..	2	..	1	..	2	..	..	1	1	1	..	..	..	4	9	13
	Poodoopettah	1	1	..	4	1	..	1	..	2	1	..	1	1	..	1	..	..	..	1	..	..	1	..	1	8	9	17
	Egmore	..	..	1	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	1	...	1
	Camaleeswarapuram	..	1	..	..	..	..	..	..	..	..	..	..	1	..	1	..	..	..	..	..	..	..	1	2	3	3	6
	Total..	3	6	6	7	3	3	3	3	6	3	1	5	2	3	3	5	3	2	2	5	7	2	2	4	41	47	88
6	Kilpaukum	..	..	..	..	..	..	..	1	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	1	1
	Chetput	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	...	...
	Nungumbakum	..	..	..	..	..	1	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	1	1
	Mackey's Garden	1	..	1	1	..	..	..	..	..	..	..	..	..	..	1	..	..	1	..	..	1	..	..	..	4	2	6
	Total..	1	...	1	1	..	1	..	1	..	..	..	..	..	..	1	..	..	1	..	..	1	..	..	..	4	4	8
7	Poodoopaukum	2	4	4	1	2	2	10	1	2	2	2	1	2	7	4	2	2	2	1	3	3	2	4	7	38	34	72
	Chintadripettah	1	1	3	1	1	..	1	..	..	..	2	1	1	2	1	1	1	2	1	1	..	..	1	..	13	9	22
	Narasingapooram	..	2	1	..	..	1	2	..	..	1	..	2	1	1	1	2	..	..	1	2	1	1	..	..	7	12	19
	Triplicane	18	19	16	27	27	21	31	35	14	28	18	19	17	15	18	17	20	19	24	15	23	26	30	20	256	256	512
	Theerooveteeswaranpettah	2	8	2	4	5	7	2	2	3	4	3	2	2	3	8	1	3	7	8	2	..	2	6	5	44	47	91
	Total..	23	34	26	33	35	31	46	38	19	30	25	25	23	28	32	23	26	30	35	23	27	31	41	32	358	358	716
8	Saint Thome	2	1	1	2	3	3	2	4	2	..	1	2	4	2	1	1	1	3	7	3	4	1	2	2	30	24	54
	Alwarpettah	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	...
	Royapettah	1	..	2	1	..	3	2	1	..	2	1	2	2	4	1	1	2	..	1	2	1	..	6	19	22	35
	Meer Saib's Pettah	2	3	2	4	1	1	3	2	1	2	2	..	..	3	3	1	2	2	..	1	..	6	5	4	21	29	50
	Kistnampettah	1	..	2	..	..	1	2	..	1	..	..	..	..	..	..	..	1	1	2	..	..	2	5	1	14	5	19
	Thanampettah	1	..	..	1	..	..	..	..	..	1	..	..	..	..	..	..	..	..	1	..	..	..	1	..	3	2	5
	Total..	7	4	7	8	4	8	9	7	4	5	4	4	6	9	5	3	6	6	10	5	6	10	13	13	81	82	163
	General Total...	62	74	69	76	70	72	79	78	50	60	55	54	64	73	84	64	56	55	70	52	61	65	79	82	799	805	1,604
Hospitals.	Monegar Choultry Hospital	..	..	..	1	2	..	1	3	3	2	..	..	..	2	1	3	1	2	1	3	..	3	1	2	10	21	31
	General ,,	..	..	3	..	1	..	2	..	..	..	..	..	1	..	1	..	1	..	8	..	1	..	..	..	18	...	18
	Lock ,,	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	...	...
	Hospital for Women and Children	..	2	..	..	..	..	..	..	..	..	..	1	..	..	..	..	..	..	..	..	..	..	..	1	..	4	4
	Lying-in Hospital	...	1	..	..	1	..	..	..	..	..	..	..	1	..	..	..	..	..	..	..	1	1	1	..	4	2	6
	Penitentiary Hospital	..	..	..	..	..	..	..	..	..	..	..	..	..	..	1	..	1	..	..	..	..	..	..	..	2	...	2
	Lunatic Asylum	..	1	..	..	..	..	..	..	1	..	..	..	..	..	..	..	..	..	..	..	..	..	1	1	2	2	4
	Royapettah Hospital	1	..	..	..	1	1	1	1	1	1	..	...	..	..	1	..	1	1	3	1	..	..	1	1	10	6	16
	Total..	1	4	3	1	5	1	4	4	5	3	..	1	2	2	4	3	4	3	7	4	2	4	4	5	41	35	76
	General Total..	63	78	72	77	75	73	83	82	55	63	55	55	66	75	88	67	60	58	77	56	63	69	83	87	840	840	1,680

APPENDIX V.

VITAL STATSITICS.

TABLE XXIII.—DEATHS.

Return shewing the total Deaths among all Classes in each Village of the City of Madras, for the year 1879.

Municipal Divisions.	Names of Villages.	Population.	Europeans.		East Indians.		Native Christians.		Hindus.		Mahomedans.		Total		Total of Males and Females.	Ratio per 1,000 of population.
			M	F	M	F	M	F	M	F	M	F	M	F		
1	Tondiarpettah	35,240	1	...	...	...	1	...	59	74	1	1	62	75	137	28·4
	Washermenpettah	6,409	...	...	1	1	10	10	485	455	34	47	530	513	1,043	
	Royapuram	11,089	2	3	5	4	30	30	268	264	29	40	334	341	675	60·8
	Cashmode	12,383	1	...	...	1	36	31	206	147	57	48	300	227	527	42·7
	Total...	65,121	4	3	6	6	77	71	1,018	940	121	136	1,226	1,156	2,382	36·5
2	Peddoo Naick's Pettah	65,629	1	...	9	14	4	8	1,165	1,312	25	21	1,204	1,355	2,559	38·9
	Big Parcherry	5,179	1	...	9	8	5	8	...	1	...	...	15	12	27	5·2
	John Pereira's Garden	2,980	1	...	2	2	2	8	...	...	...	...	5	5	10	3·4
	Total...	73,788	3	...	20	24	11	14	1,165	1,313	25	21	1,224	1,372	2,596	35·2
3	Moothealpettah	32,062	2	4	36	34	30	36	640	677	138	131	846	882	1,728	33·9
	Uttapauliam	18,895	...	...	...	...	...	...	...	...	...	...	...	...	...	
	Fort Saint George	1,588	3	...	...	...	...	...	...	...	...	...	3	...	3	1·8
	Total...	52,545	5	4	36	34	30	36	640	677	138	131	849	882	1,731	32·9
4	Gunpowder Mills	641	...	...	1	...	...	...	...	...	...	...	1	...	1	1·5
	Perambore	5,650	1	1	5	6	8	...	74	90	31	26	114	128	237	41·9
	Viasarapaudy	3,500	...	1	...	1	...	...	25	25	...	...	25	27	52	14·8
	Total...	9,791	1	2	6	7	8	...	99	115	31	26	140	150	290	29·6
5	Choolay	15,000	...	...	...	...	2	6	204	188	6	16	212	210	422	28·1
	Pursewalkum	19,006	1	2	6	10	21	30	336	332	10	5	374	379	753	39·6
	Pereamettoo	11,275	...	...	1	1	6	8	67	106	9	5	83	115	198	20·8
	New Town		...	2	7	7	8	7	...	...	...	...	15	16	31	
	Vepery	4,500	6	...	10	9	7	8	18	19	4	9	45	45	90	20·0
	Poodoopettah...	3,774	...	...	3	5	20	22	30	34	8	9	61	70	131	34·7
	Egmore	4,392	2	1	2	2	3	3	66	41	1	...	74	47	121	19·1
	Comaleeswarapuram	7,544	...	...	...	...	...	...	54	47	3	3	57	50	107	
	Total...	65,491	9	5	29	34	67	79	775	767	41	47	921	932	1,853	28·2
6	Kilpaukum	5,222	...	2	...	1	...	...	13	13	...	1	13	17	30	5·7
	Chetput	2,611	...	...	...	...	...	1	31	19	...	...	31	20	51	29·3
	Nungumbaukum	7,704	...	1	...	1	5	4	56	66	...	1	61	73	134	17·3
	Mackey's Garden	3,853	...	...	...	...	1	3	19	16	4	2	24	21	45	11·6
	Total...	19,390	...	3	...	2	6	8	119	114	4	4	129	131	260	13·1
7	Poodoopaukum	6,087	1	...	3	6	4	6	127	107	38	34	173	153	326	53·5
	Chintadripettah	15,120	2	...	5	3	18	16	230	245	13	9	268	273	541	35·7
	Narasingapuram	3,046	...	...	6	5	3	5	32	26	7	12	48	48	96	31·5
	Triplicane	33,258	...	...	1	2	4	7	383	360	256	256	644	625	1,269	38·1
	Therooveteeswaranpettah	12,057	1	...	...	...	...	1	42	45	44	47	87	93	180	14·9
	Total...	69,568	4	...	15	16	29	35	814	783	358	358	1,220	1,192	2,412	34·6
8	Saint Thomé	20,575	3	4	4	2	20	28	328	288	30	24	385	346	731	36·6
	Alwarpettah	1,163	...	...	...	...	...	...	28	37	...	...	28	37	65	
	Royapettah	5,255	...	...	3	3	9	6	70	63	13	22	95	94	189	35·9
	Meer Saib's Pettah	2,050	...	...	...	...	2	3	43	47	21	29	66	79	145	70·7
	Kistnampettah	5,193	...	...	...	...	1	1	59	46	14	5	74	52	126	24·2
	Thanampettah	7,246	...	...	...	...	3	4	49	56	3	2	55	62	117	16·1
	Total...	41,482	3	4	7	5	35	42	577	537	81	82	703	670	1,373	33·0
	General Total...	397,126	29	21	119	128	258	285	5,207	5,246	799	805	6,412	6,485	12,897	32·4
Hospitals.	Monegar Choultry Hospital ...	426	...	...	3	...	10	16	156	183	10	21	179	220	399	936·6
	General Hospital	...	25	6	25	...	20	1	129	2	13	...	212	9	221	...
	Lock ,, ...	...	...	...	...	...	...	...	...	8	...	...	...	8	8	...
	Hospital for Women and Children.	...	2	1	2	11	4	8	6	40	...	4	14	64	78	...
	Lying-in Hospital	...	2	1	4	2	5	4	24	36	4	2	39	45	84	...
	Penitentiary Hospital	...	...	...	...	...	...	...	10	2	2	...	12	2	14	...
	Lunatic Asylum	...	1	...	2	2	...	...	19	7	2	2	24	11	35	...
	Royapettah Hospital..	...	...	...	...	3	3	1	24	20	10	6	37	30	67	...
	Total...	426	30	8	36	18	42	30	368	298	41	35	517	389	906	...
	General Total...	397,552	59	29	155	146	300	315	5,575	5,544	840	840	6,929	6,874	13,803	34·7

APPENDIX V.

VITAL STATISTICS.

TABLE XXIV.—DEATHS.

Return shewing the Deaths from Small-pox in each Village of the City of Madras, for the year 1879, arranged according to months.

Municipal Divisions.	Names of Villages.	Deaths from Small-pox.																										Total of Males and Females.
		January.		February.		March.		April.		May.		June.		July.		August.		September.		October.		November.		December.		Total.		
		M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F.	M	F.	M	F.	M.	F.	
1	Tondiarpettah ..	...	...	...	...	...	...	..	..	..	..	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	Washermenpettah..	...	..	4	4	3	6	4	1	2	2	1	2	2	2	...	1	...	...	1	...	1	...	...	1	18	19	37
	Royapuram ..	...	..	..	...	...	...	..	..	..	4	...	1	1	2	1	1	1	...	...	1	...	...	...	...	3	9	12
	Cashmode ..	...	..	..	...	...	...	..	..	..	..	...	...	...	...	...	...	...	...	1	...	...	...	...	...	1	...	1
	Total..	...	...	4	4	3	6	4	1	2	6	1	3	3	4	1	2	1	...	2	1	1	...	...	1	22	28	50
2	Peddoo Naick's Pettah ..	10	11	30	38	33	33	31	30	13	8	2	6	2	2	1	3	2	1	3	...	1	1	...	...	128	133	261
	Big Parcherry ..	...	..	..	...	...	..	..	..	..	..	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	John Pereira's Garden ...	...	..	..	...	...	..	..		..	..	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	Total..	10	11	30	38	33	33	31	30	13	8	2	6	2	2	1	3	2	1	3	...	1	1	...	...	128	133	261
3	Moothealpettah ..	6	1	16	8	14	18	13	13	3	6	3	6	4	8	5	7	1	1	1	3	...	...	1	...	67	71	138
	Uttapaulam ..	...	..	..	...	...	...	..	..	..	..	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	Fort Saint George..	...	..	..	...	...	...	..	..	..	..	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	Total..	6	1	16	8	14	18	13	13	3	6	3	6	4	8	5	7	1	1	1	3	...	...	1	...	67	71	138
4	Gunpowder Mills ..	...	..	..	...	...	...	..	..	..	..	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	Perambore ..	...	..	..	...	1	...	..	..	..	..	...	...	...	1	...	...	...	...	...	...	...	...	...	...	1	1	2
	Vissarapaudy ..	...	..	..	...	...	...	..	..	..	..	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	Total..	...	..	..	...	1	...	..	..	..	..	...	...	...	1	...	...	...	...	...	...	...	...	...	...	1	1	2
5	Choolay ..	...	..	..	...	2	...	2	3	..	2	...	...	...	...	...	1	2	...	...	1	...	...	...	1	6	8	14
	Pursewalkum ..	3	..	2	1	...	...	1	3	3	5	1	...	...	...	2	...	1	...	2	3	1	2	...	...	16	14	30
	Pereamettoo ..	...	..	..	...	1	1	1	1	..	1	1	1	...	1	...	2	...	1	...	...	1	1	...	1	4	10	14
	New Town ..	...	..	..	...	1	...	..	..	..	..	...	...	...	...	...	...	...	...	...	...	...	...	...	...	1	...	1
	Vepery ..	...	..	..	...	...	1	1	1	..	..	...	...	...	...	...	...	...	1	...	...	...	...	...	...	1	3	4
	Poodoopettah ..	...	..	..	...	1	...	..	1	1	4	...	...	...	...	...	...	...	...	...	...	...	...	...	...	2	5	7
	Egmore ..	...	..	..	...	...	1	..	..	..	..	...	1	1	...	3	...	...	1	...	...	...	1	...	...	4	4	8
	Comaleeswara-poorum ..	...	..	..	1	...	...	..	..	..	..	1	...	...	...	...	...	...	...	1	2	2	1	...	...	4	4	8
	Total..	3	..	2	2	5	3	5	9	4	12	3	2	1	1	5	3	3	3	3	6	4	5	...	2	38	48	86
6	Kilpaukum ..	...	..	..	...	...	...	1	..	..	..	...	...	1	...	...	...	...	...	...	...	...	...	...	...	2	...	2
	Chetput ..	...	..	..	...	...	...	..	..	..	..	...	...	...	...	...	1	...	...	...	...	...	...	...	...	...	1	1
	Nungumbaukum ..	...	..	..	...	...	1	1	1	..	..	...	1	...	...	...	...	...	1	...	...	...	...	...	...	1	4	5
	Mackey's Garden ..	...	..	..	...	...	...	..	..	..	..	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	Total..	...	..	..	...	...	1	2	1	..	..	...	1	1	...	...	1	...	1	...	...	...	...	...	...	3	5	8
7	Poodoopaukum ..	...	..	2	...	3	2	3	4	2	.	...	1	...	3	1	1	2	1	3	...	...	...	...	...	16	12	28
	Chintadripettah ..	1	..	4	2	3	...	2	2	1	1	2	...	1	...	...	...	...	1	2	...	...	...	...	1	16	7	23
	Narasingapuram ..	...	..	..	...	...	...	1	..	1	...	...	...	1	1	...	...	...	...	...	...	...	...	...	...	3	1	4
	Triplicane ..	4	2	2	5	11	7	6	16	2	6	...	5	4	4	2	8	5	6	8	8	6	12	4	8	54	87	141
	Theroveteswaran-pettah ..	...	2	..	...	1	1	..	..	1	2	...	...	1	1	...	...	1	1	3	1	...	...	...	...	7	8	15
	Total..	5	4	8	7	18	10	12	22	7	9	2	6	7	9	3	9	8	9	16	9	6	12	4	9	96	115	211
8	Saint Thomé ..	1	2	2	2	3	2	6	5	4	2	1	6	3	5	3	2	4	3	4	5	2	1	5	3	38	38	76
	Alwarpettah ..	...	..	..	...	...	...	..	..	..	..	...	...	...	...	...	...	...	...	...	1	...	1	...	...	...	2	2
	Royapettah ..	...	..	..	...	...	...	7	2	1	2	2	1	...	2	2	...	2	...	2	1	...	...	1	3	17	11	28
	Meer Saib's Pettah..	2	1	4	3	2	3	2	2	..	1	...	...	...	1	...	...	...	1	...	...	...	...	...	...	10	12	22
	Kistnampettah ..	...	..	1	2	...	6	..	..	..	1	1	...	1	...	1	...	1	...	1	...	...	...	1	...	7	9	16
	Thanampettah ..	...	..	..	...	...	...	..	..	..	..	...	...	...	...	...	1	...	...	...	...	...	...	...	...	...	1	1
	Total..	3	3	7	7	5	11	15	9	5	6	4	7	4	8	6	3	7	4	7	7	2	2	7	6	72	73	145
	General Total..	27	19	67	66	79	82	82	85	34	47	15	31	22	33	21	28	22	19	32	26	14	20	12	18	427	474	901
Hospitals.	Monegar Choultry Hospital ..	...	..	..	1	...	..	1	1	..	..	...	...	...	...	...	...	1	...	...	...	...	...	...	...	2	2	4
	General Hospital ..	...	..	..	...	...	...	..	..	..	..	1	...	...	...	...	...	...	...	...	...	...	...	...	...	1	...	1
	Lock „ ...	...	..	..	...	...	...	..	..	..	..	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	Hospital for Women and Children ..	...	..	..	...	...	...	1	1	1	..	...	...	...	...	...	...	...	...	...	...	...	...	...	...	2	1	3
	Lying-in Hospital..	...	..	..	...	...	...	...	..	..	..	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	Penitentiary „ ..	...	..	..	...	...	...	..	..	..	..	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	Lunatic Asylum ..	...	..	..	...	...	...	..	..	..	..	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	Royapettah Hospital	...	..	..	...	...	1	..	..	..	..	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	1	1
	Total..	...	..	..	1	...	1	2	2	1	..	1	...	...	...	...	...	1	...	...	...	...	...	...	...	5	4	9
	General Total..	27	19	67	67	79	83	84	87	35	47	16	31	22	33	21	28	23	19	32	26	14	20	12	18	432	478	910

VITAL STATISTICS.

TABLE XXV.—DEATHS.

Return shewing the Deaths from Fevers in each Village of the City of Madras, for the year 1879, arranged according to months.

Municipal Divisions.	Names of Villages.	Deaths from Fevers.																								Total of Males and Females.
		January.		February.		March.		April.		May.		June.		July.		August.		September.		October.		November.		December.		Total.		
		M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	
1	Tondiarpettah ...	1	1	1	1	2	2	1	...	2	...	2	4	1	1	...	1	2	2	...	5	4	5	1	6	17	28	45
	Washermenpettah...	19	17	15	9	9	11	13	9	12	12	9	9	14	17	14	10	17	15	11	25	19	17	22	20	174	171	345
	Royapuram ...	11	12	6	6	9	14	10	9	7	7	7	17	9	10	7	12	8	7	6	7	16	6	13	10	109	117	226
	Cashmode ...	11	7	13	8	5	9	7	7	10	4	11	7	14	6	13	8	13	5	5	4	12	7	7	13	121	85	206
	Total...	42	37	35	24	25	36	31	25	31	23	29	37	38	34	34	31	40	29	22	41	51	35	43	49	421	401	822
2	Peddoo Naick's Pettah	38	42	23	32	24	27	19	23	18	25	13	18	21	33	18	36	38	30	31	38	23	24	30	36	296	364	660
	Big Parcherry ...	1	...	...	...	...	...	...	...	...	...	...	..	...	...	...	...	...	...	...	1	...	...	...	...	1	1	2
	John Pereira's Garden	...	1	...	...	1	...	1	...	...	...	...	..	...	...	...	...	...	...	...	...	...	...	...	1	2	2	4
	Total...	39	43	23	32	25	27	20	23	18	25	13	18	21	33	18	36	38	30	31	39	23	24	30	37	299	367	666
3	Moothealpettah ...	22	21	22	20	19	19	11	21	20	18	16	16	9	15	17	23	13	21	12	24	13	27	19	19	193	244	437
	Uttapaulam ...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	Fort Saint George...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	1	...	...	...	...	...	...	...	1	...	1
	Total...	22	21	22	20	19	19	11	21	20	18	16	16	9	15	17	23	14	21	12	24	13	27	19	19	194	244	438
4	Gunpowder Mills ...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	Perambore ...	4	3	2	1	2	2	1	3	...	3	3	3	2	2	5	3	3	5	2	2	1	3	1	3	26	33	59
	Viasarapaudy ...	2	3	2	...	...	...	...	...	1	2	...	..	...	1	...	...	2	5	...	...	...	1	1	...	8	12	20
	Total...	6	6	4	1	2	2	1	3	1	5	3	3	2	3	5	3	5	10	2	2	1	4	2	3	34	45	79
5	Choolay ...	5	6	8	5	2	4	8	3	5	5	2	...	3	5	5	9	6	6	7	4	6	5	4	9	61	61	122
	Pursewalkum ...	12	5	6	7	5	7	5	7	9	4	4	14	6	5	11	19	4	10	6	6	11	12	8	12	87	108	195
	Pereamettoo ...	1	5	2	2	2	3	1	3	...	...	2	3	1	1	3	4	1	4	2	4	...	...	2	1	17	30	47
	New Town ...	...	...	...	1	...	...	...	3	...	1	...	..	...	...	1	...	...	...	...	...	1	...	...	...	2	5	7
	Vepery ...	...	2	1	1	...	...	...	...	1	...	...	1	...	...	...	3	2	2	1	...	1	...	1	...	7	9	16
	Poodoopettah ...	2	3	1	1	2	...	...	...	2	1	2	4	...	1	1	3	1	2	1	2	...	2	1	...	13	19	32
	Egmore ...	2	1	1	...	1	1	1	...	2	1	...	1	1	1	2	4	3	...	2	1	2	...	3	1	20	11	31
	Comaleeswarapooram ...	2	3	2	...	3	1	2	2	3	1	1	1	2	...	...	1	2	...	...	...	1	2	1	2	19	13	32
	Total...	24	25	21	17	15	16	17	18	22	13	11	24	13	13	23	43	19	24	19	17	22	21	20	25	226	256	482
6	Kilpaukum ...	...	...	...	...	1	...	1	1	1	...	...	...	...	...	1	1	...	1	...	...	...	...	...	...	4	3	7
	Chetput ...	...	2	...	...	...	...	2	1	...	...	1	2	1	...	1	...	...	...	...	...	...	...	...	1	5	6	11
	Nungumbaukum ...	2	1	...	3	2	2	3	2	2	3	...	3	1	3	...	...	1	3	2	4	1	3	2	2	16	29	45
	Mackey's Garden ...	1	...	1	...	2	...	2	1	...	...	...	1	...	...	1	..	1	2	2	...	...	2	1	1	11	7	18
	Total..	3	3	1	3	5	2	8	5	3	3	1	6	2	3	3	1	2	6	4	4	1	5	3	4	36	45	81
7	Poodoopaukum ...	3	7	3	1	1	2	3	5	3	2	3	2	3	5	5	2	1	2	6	3	3	2	2	4	36	37	73
	Chintadripettah ...	11	11	3	5	2	6	2	8	1	6	6	...	6	7	4	5	6	11	7	8	6	6	13	10	67	83	150
	Narasingapooram ...	...	...	...	1	...	...	...	2	...	2	2	3	...	2	1	...	1	...	...	1	2	1	4	...	10	12	22
	Triplicane ...	17	11	8	9	8	9	13	9	11	17	15	10	7	11	10	8	8	10	15	4	16	9	19	12	147	119	266
	Theroovoteeswarampettah ...	...	2	2	1	...	2	...	...	1	2	3	2	2	3	1	...	1	1	3	...	1	1	3	3	17	17	34
	Total...	31	31	16	17	11	19	18	24	16	29	29	17	18	28	21	15	17	24	31	16	28	19	41	29	277	268	545
8	Saint Thomé ...	7	8	4	5	3	9	5	5	9	7	10	4	9	5	8	9	6	5	7	11	9	6	9	13	86	87	173
	Alwarpettah ...	1	2	1	...	...	2	...	1	1	...	...	..	...	1	1	1	...	2	...	1	5	1	2	2	11	13	24
	Royapettah ...	6	...	1	3	1	2	1	1	1	1	3	..	4	4	2	...	3	1	1	1	2	3	3	3	28	19	47
	Meer Saib's Pettah..	2	2	1	1	2	1	1	1	...	...	1	..	1	2	...	1	1	3	...	1	...	4	2	2	11	18	29
	Kistnampettah ...	1	1	2	3	...	2	1	1	...	1	1	1	2	3	...	2	1	1	1	2	2	...	1	...	12	17	29
	Thanampettah ...	1	1	2	...	...	...	1	...	...	1	...	1	3	...	...	1	...	2	1	...	2	1	2	3	12	10	22
	Total...	18	14	11	12	6	16	9	9	11	10	15	6	19	15	11	14	11	14	10	16	20	15	19	23	160	164	324
	General Total...	185	180	133	126	103	137	115	128	122	126	117	127	122	144	132	166	146	158	131	159	159	150	177	189	1,647	1,790	3,437
Hospitals.	Monegar Choultry Hospital ...	1	...	...	...	...	...	...	...	2	...	2	2	1	...	...	...	1	1	...	...	...	...	...	...	7	3	10
	General Hospital ...	1	...	...	...	1	...	1	...	1	...	...	...	1	1	...	...	...	...	1	...	...	...	1	...	7	1	8
	Lock „ ...	...	1	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	1	1
	Hospital for Women and Children ...	...	...	...	...	...	1	...	...	...	...	...	...	...	...	...	1	...	1	...	...	...	...	1	...	1	3	4
	Lying-in Hospital...	...	...	...	...	...	...	...	1	...	...	...	...	...	1	...	1	...	...	...	...	...	...	...	...	...	3	3
	Penitentiary „ ...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	Lunatic Asylum ...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	RoyapettahHospital	...	...	...	...	...	...	...	...	...	...	...	...	1	1	...	...	...	...	...	...	...	...	...	...	1	1	2
	Total...	2	1	...	...	1	1	1	1	3	...	2	2	3	3	...	2	1	2	1	...	...	...	2	...	16	12	28
	General Total...	187	181	133	126	109	138	116	129	125	126	119	129	125	147	132	168	147	160	132	159	159	150	179	189	1,663	1,802	3,465

APPENDIX V.

VITAL STATISTICS.

TABLE XXVI.—DEATHS.

Return shewing the Deaths from Dysentery in each Village of the City of Madras for the year 1879, arranged according to months.

Municipal Divisions.	Names of Villages.	Deaths from Dysentery.																										Total of Males and Females.
		January.		February.		March.		April.		May.		June.		July.		August.		September.		October.		November.		December.		Total.		
		M	F.	M	F.	M	F.	M	F.	M	F.	M	F.	M	F.	M.	F.	M	F.	M.	F.	M	F.	M	F.	M.	F.	
1	Tondiarpettah	...	...	...	...	1	1	...	...	...	...	..	1	...	...	...	...	...	..	3	3	1	...	1	2	6	7	13
	Washermenpettah	11	9	3	5	5	3	3	5	7	1	4	2	8	4	6	1	6	6	4	5	6	4	6	5	69	50	119
	Royapurum	4	2	1	1	1	...	2	2	...	5	1	3	1	1	2	3	3	2	...	2	1	3	1	3	17	27	44
	Cashmode	1	4	1	1	4	2	3	...	4	1	3	1	1	2	2	...	3	2	3	3	2	2	3	4	30	22	52
	Total...	16	15	5	8	11	5	8	7	11	7	8	7	10	7	10	4	12	10	10	13	10	9	11	14	122	106	228
2	Peddoo Naick's Pettah	10	8	6	6	2	9	4	4	4	3	2	2	7	9	11	12	10	9	5	6	8	2	9	6	78	76	154
	Big Parcherry	...	...	...	...	...	...	...	...	...	...	...	...	1	...	...	...	...	...	...	1	1	...	...	...	2	1	3
	John Pereira's Garden	...	...	...	...	...	...	...	...	1	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	1	...	1
	Total...	10	8	6	6	2	9	4	4	5	3	2	2	8	9	11	12	10	9	5	7	9	2	9	6	81	77	158
3	Mootheal Pettah	6	8	2	1	3	4	4	5	5	9	...	3	6	1	5	4	2	4	4	4	4	2	8	4	49	49	98
	Uttapauliam	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	Fort Saint George	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	Total...	6	8	2	1	3	4	4	5	5	9	...	3	6	1	5	4	2	4	4	4	4	2	8	4	49	49	98
4	Gunpowder Mills	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	Perambore	3	1	2	...	...	1	...	1	...	...	2	2	...	1	...	3	...	2	3	...	...	...	...	...	10	11	21
	Viasarapaudy	1	...	...	...	...	...	...	...	...	1	2	...	...	...	...	...	...	...	1	...	...	2	...	...	4	3	7
	Total...	4	1	2	...	...	1	...	1	...	1	4	2	...	1	...	3	...	2	4	...	...	2	...	...	14	14	28
5	Choolay	2	1	5	2	2	3	2	1	2	1	2	1	...	...	3	2	...	5	1	...	...	2	1	2	20	20	40
	Pursewalkum	5	6	2	3	3	2	4	...	1	3	3	6	9	1	4	5	...	4	4	4	6	9	10	8	51	51	102
	Pereamettoo	1	1	1	...	...	2	...	1	1	2	2	1	1	2	2	1	1	1	1	...	...	1	...	2	10	14	24
	New Town	...	...	1	...	...	1	...	...	...	...	1	...	...	...	1	...	...	...	...	...	1	...	...	1	4	2	6
	Vepery	...	1	.	...	1	...	...	...	...	1	...	2	...	...	...	...	1	1	1	1	1	...	...	...	4	6	10
	Poodoopettah	..	2	...	1	1	...	2	1	1	...	...	4	...	1	...	2	1	1	...	...	...	1	2	1	7	14	21
	Egmore	...	1	...	2	1	...	...	1	1	...	...	...	1	2	2	...	...	...	...	2	...	...	...	...	5	8	13
	Comaleeswarapuram	...	...	...	...	...	...	...	...	...	...	...	...	1	1	...	...	...	...	...	1	...	...	1	...	2	2	4
	Total...	8	12	9	8	8	8	8	4	6	7	8	14	12	7	12	10	3	12	7	8	8	18	14	14	103	117	220
6	Kilpaukum	...	...	...	1	...	2	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	3	3
	Chetput	...	...	2	3	1	1	1	1	...	1	...	...	1	...	2	...	...	...	...	...	...	...	1	2	8	8	16
	Nungumbaukum	...	..	1	...	1	...	...	2	2	1	...	...	3	1	2	1	2	1	...	...	...	1	...	1	11	8	19
	Mackey's Garden	...	...	...	...	...	...	...	1	...	...	...	...	...	...	...	1	...	1	...	1	1	...	1	...	2	4	6
	Total...	...	...	3	4	2	3	1	4	2	2	...	...	4	1	4	2	2	2	...	1	1	1	2	3	21	23	44
7	Poodoopaukum	1	3	1	1	1	1	...	3	1	1	...	1	2	2	1	1	2	1	...	4	...	...	...	...	9	18	27
	Chintadripettah	1	4	1	1	1	1	4	1	4	2	1	...	1	3	3	2	2	2	1	1	2	2	1	2	22	21	43
	Narasingapurum	...	...	2	...	...	2	1	...	1	...	...	...	...	...	1	1	...	2	1	3	1	...	1	...	8	8	16
	Triplicane	8	11	4	7	...	1	4	7	3	2	6	2	3	3	8	11	6	10	4	5	5	8	4	1	50	68	118
	Therooveteesweranpettah.....	...	2	...	...	1	1	...	...	...	...	..	...	1	...	..	...	..	...	...	1	1	1	...	...	3	5	8
	Total...	5	20	8	9	3	6	9	11	9	5	7	3	7	8	18	15	10	15	6	14	9	11	6	3	92	120	212
8	Saint Thomé	8	...	2	2	5	2	5	3	...	2	3	...	2	...	2	3	6	1	5	2	3	4	4	4	45	23	68
	Alwarpettah	...	...	...	...	...	1	...	...	1	...	2	...	...	...	...	1	...	2	...	...	...	...	...	...	3	4	7
	Royapettah	1	1	...	...	1	...	1	...	...	...	...	...	...	1	...	...	...	1	1	...	2	1	...	1	6	5	11
	Meer Saib's Pettah	2	2	...	...	2	1	1	1	...	1	1	...	1	3	...	...	...	...	...	1	1	...	...	3	8	12	20
	Kistnampettah	2	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	1	1	...	...	...	2	...	...	3	3	6
	Thanampettah	...	2	1	1	...	...	2	...	...	...	...	...	...	...	2	...	...	...	1	2	...	...	2	...	8	5	13
	Total...	13	5	3	3	8	4	9	4	1	3	6	...	3	4	4	4	7	5	7	5	6	7	6	8	73	52	125
	General Total...	62	69	38	39	37	40	43	40	39	37	35	31	50	38	59	54	46	59	43	52	47	47	56	52	555	558	1,113
Hospitals.	Monegar Choultry Hospital..	3	4	3	...	3	1	1	...	7	3	2	1	1	3	2	2	1	3	2	3	4	6	3	4	32	30	62
	General „ ...	...	...	2	...	...	...	2	...	...	...	1	...	1	...	2	...	...	...	5	...	3	...	3	...	19	...	19
	Lock „ ...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	Hospital for Women and Children ...	..	...	...	1	...	...	...	...	...	2	1	...	...	...	...	1	...	...	...	...	...	...	...	...	1	4	5
	Lying-in Hospital ...	...	...	...	1	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	1	1
	Penitentiary Hospital ...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	Lunatic Asylum ...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	1	...	...	1	...	1
	Royapettah Hospital ...	3	1	...	1	...	...	...	...	...	...	...	...	...	...	1	1	1	...	2	1	...	...	...	...	7	4	11
	Total...	6	5	5	3	3	1	3	...	7	5	4	1	2	3	5	4	2	3	9	4	7	6	7	4	60	39	99
	General Total...	68	74	43	42	40	41	46	40	46	42	39	32	52	41	64	58	48	62	52	56	54	53	63	56	615	597	1,212

VITAL STATISTICS.

TABLE XXVII.—DEATHS.

Return shewing the Deaths from Diarrhœa in each Village of the City of Madras for the year 1879, arranged according to months.

Municipal Divisions.	Names of Villages.	Deaths from Diarrhœa.																								Total of Males and Females.
		January.		February.		March.		April.		May.		June.		July.		August.		September.		October.		November.		December.		Total.		
		M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	
1	Tondiarpettah	1	...	...	...	...	...	...	...	...	1	...	...	...	...	...	...	...	...	...	...	...	...	...	...	1	1	2
	Washermenpettah ...	...	4	...	1	2	2	...	1	...	2	2	...	3	3	2	4	...	3	1	...	1	1	1	2	12	23	35
	Royapooram	2	1	...	1	2	...	...	2	...	2	2	...	1	...	1	1	2	1	3	...	1	1	2	1	16	10	26
	Cashmode	...	...	2	3	...	...	...	...	1	...	...	...	1	1	1	1	...	...	...	...	...	...	2	1	7	6	13
	Total...	3	5	2	5	4	2	...	3	1	5	4	...	5	4	4	6	2	4	4	...	2	2	5	4	36	40	76
2	Peddoo Naick's Pettah ...	4	3	9	7	3	3	7	6	4	5	5	3	7	3	4	9	3	8	4	8	3	4	5	3	58	62	120
	Big Parcherry	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	John Pereira's Garden ...	...	...	...	...	...	...	...	...	...	...	1	...	...	...	...	...	...	...	...	...	...	...	...	...	...	1	1
	Total...	4	3	9	7	3	3	7	6	4	5	5	4	7	3	4	9	3	8	4	8	3	4	5	3	58	63	121
3	Moothealpettah	5	5	4	3	...	4	1	3	1	2	2	1	5	3	7	3	1	4	2	...	1	2	4	3	33	33	66
	Uttapauliam	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	Fort Saint George ...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	Total...	5	5	4	3	...	4	1	3	1	2	2	1	5	3	7	3	1	4	2	...	1	2	4	3	33	33	66
4	Gunpowder Mills ...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	Perambore	...	...	...	...	...	...	1	1	...	...	...	...	1	1	...	1	...	...	...	...	...	1	...	...	2	4	6
	Vissarapaudy	1	...	...	...	...	1	1	...	...	...	...	...	...	...	...	...	...	...	...	...	1	...	...	...	3	1	4
	Total...	1	...	...	...	...	1	2	1	...	...	...	...	1	1	...	1	...	...	...	...	1	1	...	...	5	5	10
5	Choolay	...	1	...	...	...	1	1	...	...	...	1	...	...	...	...	...	...	...	...	...	...	...	...	...	1	3	4
	Pursewalkum	2	1	1	...	...	2	1	...	...	3	1	4	2	4	...	1	1	3	...	...	...	...	3	1	11	19	30
	Pereamettoo	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	1	...	...	...	...	...	...	...	1	...	1
	New Town	...	...	...	...	...	...	...	...	1	1	...	...	...	...	...	1	...	1	...	...	...	...	...	...	1	3	4
	Vepery... ...	...	...	...	...	1	...	...	...	...	...	...	...	...	...	2	...	1	1	1	...	...	...	...	...	5	1	6
	Poodoopettah ...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	2	1	...	...	...	...	...	...	...	...	2	1	3
	Egmore	...	...	...	...	...	...	...	...	...	...	...	...	...	...	1	...	...	1	...	...	1	...	...	...	2	1	3
	Comaleeswarapuram ...	...	...	...	...	...	...	...	...	...	1	...	...	...	...	1	...	...	1	...	...	...	...	...	...	1	2	3
	Total...	2	2	1	...	1	3	2	...	1	5	1	5	2	4	6	3	3	7	1	..	1	...	3	1	24	30	54
6	Kilpaukum	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	1	...	...	...	...	...	...	...	...	...	1	1
	Chetput	...	...	...	...	...	...	...	...	...	...	1	...	...	...	...	...	...	...	...	...	...	...	...	...	...	1	1
	Nungumbakum ...	1	1	...	...	1	...	...	...	...	...	...	...	...	...	1	1	...	...	...	...	...	...	1	2	4	6	
	Mackey's Garden...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	Total...	1	1	...	...	1	...	...	...	...	...	1	...	...	...	2	1	...	...	...	...	...	...	1	2	6	8	
7	Poodoopaukum	...	...	1	...	1	1	...	...	1	1	...	1	...	...	1	1	...	1	1	...	...	...	1	2	7	6	13
	Chintadripettah ...	1	...	...	...	...	...	1	...	...	1	2	...	...	...	3	1	1	2	3	1	1	2	1	...	11	9	20
	Narasingapuram ...	...	...	...	...	...	...	...	...	...	1	...	...	...	...	...	1	...	...	...	...	...	...	...	...	1	1	2
	Triplicane	1	1	...	2	1	...	3	1	2	2	...	...	...	2	2	1	...	1	4	2	...	...	1	...	14	12	26
	Therooveteeswaranpettah...	1	...	...	1	...	...	...	...	...	...	...	...	1	...	...	...	...	2	...	...	...	...	...	...	2	3	5
	Total...	3	1	1	3	2	1	3	2	3	3	3	2	2	2	6	4	1	6	8	3	1	2	3	2	35	31	66
8	Saint Thomé	2	1	1	...	...	1	...	1	1	...	...	1	...	1	...	1	1	1	...	2	1	1	...	1	6	11	17
	Alwarpettah	...	...	...	...	...	...	...	...	...	...	...	...	1	...	...	...	...	1	...	...	...	...	...	...	1	1	2
	Royapettah	...	...	...	1	2	...	...	1	...	1	...	...	...	2	...	...	...	1	...	1	...	...	...	1	2	8	10
	Meer Saib's Pettah ...	...	1	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	1	1
	Kistnampettah	...	...	...	...	...	...	...	...	1	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	1	...	1
	Thanampettah	...	...	...	...	...	...	1	...	...	...	1	...	...	...	1	...	...	...	...	...	...	...	...	...	2	1	3
	Total...	2	2	1	1	2	1	1	2	2	1	1	1	1	3	...	2	1	3	...	3	1	1	...	2	12	22	34
	General Total...	21	19	18	19	12	16	16	17	11	21	16	14	23	20	27	30	12	32	19	14	10	12	20	16	205	230	435
Hospitals.	Monegar Choultry Hospital	2	4	...	5	1	1	...	3	1	4	4	7	3	6	2	3	3	8	1	2	3	2	...	...	20	45	65
	General „ ...	...	...	3	...	...	...	4	...	1	...	1	...	1	...	6	...	4	...	3	...	1	1	1	...	25	1	26
	Lock „ ...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	Hospital for Women and Children ...	...	...	...	...	...	1	...	1	...	1	...	1	...	...	...	...	...	1	...	1	...	...	...	...	...	6	6
	Lying-in Hospital ...	...	...	...	...	...	...	...	...	...	...	...	...	1	...	...	...	1	...	...	...	...	...	...	...	2	...	2
	Penitentiary Hospital ...	1	...	...	...	...	...	...	...	...	1	1	...	...	...	...	...	...	...	...	...	...	...	...	...	2	1	3
	Lunatic Asylum	1	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	1	...	2	...	2
	Royapettah Hospital ...	...	...	...	...	1	...	1	...	1	1	...	...	...	...	...	...	...	2	...	...	...	...	...	...	3	3	6
	Total...	4	4	3	5	2	2	5	4	3	7	6	8	5	6	8	3	8	11	4	3	4	3	2	...	54	56	110
	General Total...	25	23	21	24	14	18	21	21	14	28	22	22	28	26	35	33	20	43	23	17	14	15	22	16	259	286	545

VITAL STATISTICS.

TABLE XXVIII.—DEATHS.

Return shewing the Deaths from Cholera in each Village of the City of Madras for the year 1879, arranged according to months.

Municipal Divisions.	Names of Villages.	Deaths from Cholera.																										Total of Males and Females.
		January.		February.		March.		April.		May.		June.		July.		August.		September.		October.		November.		December.		Total.		
		M	F	M	F	M	F	M	F	M	F	M	F	M	F	M.	F	M.	F	M.	F	M.	F	M.	F.	M.	F.	
1	Tondiarpettah	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	Washermenpettah	13	6	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	13	6	19
	Royapuram	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	Cashmode	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	Total...	13	6	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	13	6	19
2	Peddoo Naick's Pettah	1	1	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	1	1	2
	Big Parcherry	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	John Pereira's Garden	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	Total...	1	1	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	1	1	2
3	Moothealpettah	1	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	1	...	1
	Uttapaulium	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	Fort Saint George	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	Total...	1	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	1	...	1
4	Gunpowder Mills	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	Perambore	...	...	...	...	...	...	...	...	2	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	2	2
	Vissarapaudy	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	Total...	...	...	...	...	...	...	...	...	2	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	2	2
5	Choolay	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	Pursewalkum	1	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	1	...	1
	Pareamettoo	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	New Town	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	Vepery	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	Poodoopettah	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	Egmore	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	Comaleeswarapooram	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	Total...	1	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	1	...	1
6	Kilpaukum	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	Chetput	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	Nungumbakum	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	Mackey's Garden	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	Total...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
7	Poodoopaukum	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	Chintadripettah	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	Narasingapuram	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	Triplicane	...	2	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	1	...	3	3	3
	Therovetesveranpettah	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	Total...	...	2	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	1	...	3	3	3
8	Saint Thomé	2	1	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	2	1	3
	Alwarpettah	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	Royapettah	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	Meer Saib's Pettah	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	Kistnampettah	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	Thanampettah	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	Total...	2	1	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	2	1	3
	General Total...	18	10	...	...	...	...	...	...	2	...	...	...	...	...	...	...	...	...	...	...	...	...	1	...	18	13	31
Hospitals.	Monegar Choultry Hospital	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	General ,,	2	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	2	...	2
	Lock ,,	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	Hospital for Women and Children	...	1	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	1	1
	Lying-in-Hospital	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	Penitentiary Hospital	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	Lunatic Asylum	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	Royapettah Hospital	...	1	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	1	1
	Total...	2	2	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	2	2	4
	General Total...	20	12	...	...	...	...	...	...	2	...	...	...	...	...	...	...	...	...	...	...	...	...	1	...	20	15	35

VITAL STATISTICS.

TABLE XXIX—DEATHS.

Return shewing the Deaths from Special and other Diseases among all Classes for the year 1879, *arranged according to Age and Division.*

Months.	Divisions.	Class.										Cause of Death.											
		Europeans.		East Indians.		Native Christians.		Hindus.		Mahomedans.		Cholera.		Small-pox.		Measles.		Fevers.		Dysentery.		Diarrhœa.	
		M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.
January 1879.	1st Division. ...	1	...	...	...	10	6	127	115	15	16	13	6	...	...	...	...	43	37	19	19	5	8
	2nd do ...	1	...	3	1	5	1	138	122	1	3	3	1	10	11	...	...	40	43	10	8	4	4
	3rd do ...	...	...	1	4	2	4	66	48	12	11	1	...	6	1	...	...	22	22	6	8	5	5
	4th do ...	...	...	2	3	...	...	15	9	...	...	...	...	...	...	...	...	6	6	4	1	1	...
	5th do ...	...	...	2	2	4	6	68	73	3	9	1	1	3	...	...	...	24	25	8	12	3	2
	6th do ...	...	1	...	...	2	1	15	8	1	1	...	...	...	...	...	...	3	3	...	...	2	1
	7th do ...	...	...	2	2	1	4	78	74	23	34	...	2	5	4	...	...	31	31	5	20	3	1
	8th do ...	1	...	1	...	3	1	59	44	8	4	2	2	3	3	...	...	18	14	16	6	2	2
	Total...	3	1	11	12	27	23	561	493	63	78	20	12	27	19	...	...	187	181	68	74	25	23
February 1879.	1st Division. ...	...	...	1	...	5	7	86	71	7	14	...	...	4	5	...	1	35	24	8	8	2	10
	2nd do ...	2	...	...	1	...	...	122	141	5	1	...	...	30	38	...	...	23	32	8	6	12	7
	3rd do ...	...	...	3	3	...	3	59	48	17	12	...	...	16	8	1	...	22	20	2	1	4	3
	4th do ...	...	...	...	1	...	...	9	5	3	1	...	...	...	...	...	...	4	1	2	...	...	...
	5th do ...	...	...	3	...	4	6	75	51	6	7	...	...	2	2	...	...	21	17	9	10	1	...
	6th do ...	...	...	...	...	1	...	4	11	1	1	...	...	...	...	...	...	1	3	3	4	...	...
	7th do ...	...	...	...	...	1	3	56	53	26	33	...	...	8	7	...	...	16	17	8	9	1	3
	8th do ...	...	...	...	...	...	2	37	41	7	8	...	...	7	7	...	...	11	12	3	4	1	1
	Total...	2	...	7	5	11	21	448	421	72	77	...	...	67	67	1	1	133	126	43	42	21	24
March 1879.	1st Division. ...	...	...	...	1	...	3	95	75	7	12	...	...	3	6	...	...	25	36	14	6	5	3
	2nd do ...	2	...	2	1	2	3	105	105	2	...	...	...	33	33	...	...	26	27	2	9	3	3
	3rd do ...	...	...	4	4	1	4	44	43	20	15	...	...	14	18	...	...	19	19	3	4	...	4
	4th do ...	...	...	...	...	...	...	5	4	2	3	...	...	1	...	...	1	2	2	...	1	...	1
	5th do ...	2	...	5	2	3	6	60	63	4	2	...	...	5	3	...	...	15	17	3	3	1	4
	6th do ...	...	...	...	1	...	1	19	5	...	1	...	...	...	1	...	...	5	2	2	3	...	1
	7th do ...	...	...	...	2	2	2	47	49	35	31	...	...	18	10	...	...	11	19	3	6	2	1
	8th do ...	...	...	...	...	2	2	42	52	5	9	...	...	5	12	...	...	6	16	3	4	3	1
	Total...	4	...	11	11	10	26	417	396	75	73	...	...	79	83	...	1	109	138	40	41	14	18
April 1879.	1st Division. ...	...	...	...	1	2	4	77	62	5	13	...	...	5	2	...	...	31	25	9	7	...	6
	2nd do ...	1	...	5	1	2	...	111	106	8	5	...	...	31	30	1	...	21	28	6	4	11	6
	3rd do ...	...	...	2	2	2	1	48	67	10	11	...	...	13	13	...	...	11	21	4	5	1	3
	4th do ...	...	...	1	...	...	...	7	11	1	3	...	2	...	...	...	...	1	3	...	1	2	1
	5th do ...	4	...	3	9	5	3	50	48	3	3	...	...	6	10	...	1	17	19	3	4	2	1
	6th do ...	...	...	...	...	...	1	20	11	...	1	...	...	2	1	...	...	8	5	1	4	...	...
	7th do ...	1	...	3	...	1	3	49	62	46	38	...	...	12	22	...	...	18	24	9	11	3	2
	8th do ...	...	1	...	1	4	3	54	43	10	8	...	...	15	9	...	...	9	9	9	4	2	2
	Total...	6	1	14	14	16	20	416	420	88	82	...	2	84	87	1	1	116	129	46	40	21	21
May 1879.	1st Division. ...	...	1	1	...	7	4	83	77	12	8	...	...	2	6	...	...	33	23	18	10	2	9
	2nd do ...	5	1	5	...	3	1	109	94	2	1	...	...	13	8	...	...	19	25	5	3	5	5
	3rd do ...	...	...	2	1	3	4	52	47	9	12	...	...	3	6	...	...	20	18	5	9	1	2
	4th do ...	...	1	1	...	1	...	4	5	1	3	...	...	...	...	...	...	1	5	...	1	...	...
	5th do ...	...	2	5	6	7	7	64	62	6	3	...	...	5	12	...	...	22	13	6	9	1	7
	6th do ...	...	...	...	1	...	1	11	10	1	...	...	...	...	...	...	...	3	3	2	2	...	...
	7th do ...	1	...	2	...	3	3	58	56	19	30	...	...	7	9	...	...	16	29	9	5	2	3
	8th do ...	1	...	...	...	1	5	51	38	5	6	...	...	5	6	...	...	11	10	1	3	3	2
	Total...	7	5	16	8	25	25	432	389	55	63	...	...	35	47	...	...	125	126	46	42	14	28
June 1879.	1st Division. ...	1	...	2	...	9	6	84	80	7	12	...	...	1	3	...	...	31	39	10	8	8	7
	2nd do ...	1	...	4	2	1	...	71	73	...	...	...	...	3	6	...	...	13	18	3	2	6	4
	3rd do ...	...	...	7	3	2	1	44	53	12	5	...	...	3	6	...	...	16	16	...	3	2	1
	4th do ...	...	...	...	1	...	...	6	11	6	3	...	...	...	...	...	1	3	3	4	2	...	...
	5th do ...	...	...	2	3	4	11	57	59	1	6	...	...	3	2	...	...	11	24	9	14	1	6
	6th do ...	...	...	1	...	...	1	4	16	...	...	...	...	...	1	...	...	1	6	...	...	1	1
	7th do ...	...	...	2	1	1	3	70	45	25	25	...	...	2	6	...	...	29	17	7	3	3	2
	8th do ...	...	...	2	...	3	3	40	31	4	4	...	...	4	7	...	...	15	6	6	...	1	1
	Total...	2	...	20	10	20	25	376	368	55	55	...	...	16	31	...	1	119	129	39	32	22	22

VITAL STATISTICS.

TABLE XXIX—DEATHS.—(*Continued.*)

Return shewing the Deaths from Special and other Diseases among all Classes for the year 1879, *arranged according to Age and Division.*

Months.	Divisions.	Cause of Deaths.														Total of Males and Females.
		Injuries.										All other Causes.		Total.		
		Suicide.		Wounds		Accident.		Snake-bite.		Killed by Wild Animals						
		M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	
January 1879.	1st Division.	...	...	...	1	2	1	...	...	...	...	71	65	153	137	290
	2nd do	...	1	...	...	1	...	...	...	...	...	80	59	148	127	275
	3rd do	...	...	...	...	...	...	...	...	...	...	41	31	81	67	148
	4th do	...	...	...	...	...	...	...	...	...	...	6	5	17	12	29
	5th do	...	...	...	1	1	...	...	...	...	...	37	49	77	90	167
	6th do	...	...	...	...	...	...	...	...	...	...	13	7	18	11	29
	7th do	...	...	...	...	1	...	...	...	...	...	54	56	99	114	213
	8th do	...	...	...	...	2	...	...	...	...	...	29	22	72	49	121
	Total...	...	1	...	2	7	1	...	...	...	...	331	294	665	607	1,272
February 1879.	1st Division.	...	2	...	...	1	1	...	...	...	...	49	41	99	92	191
	2nd do	1	...	...	...	3	3	...	...	...	...	52	57	129	143	272
	3rd do	...	...	...	...	...	1	...	...	...	...	34	33	79	66	145
	4th do	...	...	...	...	...	...	...	...	...	...	6	6	12	7	19
	5th do	...	...	...	...	...	...	...	...	...	...	55	35	88	64	152
	6th do	...	...	...	...	...	...	...	...	...	...	2	5	6	12	18
	7th do	...	...	...	...	...	...	...	...	...	...	50	53	83	89	172
	8th do	...	...	...	...	...	...	...	1	...	...	22	26	44	51	95
	Total...	1	2	...	...	4	5	...	1	...	...	270	256	540	524	1,064
March 1879.	1st Division.	...	...	...	...	3	1	...	...	...	...	52	44	102	96	198
	2nd do	...	...	...	...	2	...	...	...	...	...	47	37	113	109	222
	3rd do	...	...	...	...	1	...	...	...	...	...	32	21	69	66	135
	4th do	...	...	...	...	1	...	...	...	...	...	3	2	7	7	14
	5th do	1	...	...	...	3	...	...	...	...	...	41	41	74	73	147
	6th do	...	...	...	...	...	...	...	...	...	...	12	1	19	8	27
	7th do	...	...	...	...	1	1	...	...	...	...	49	47	84	84	168
	8th do	...	...	...	...	1	1	...	...	...	...	26	29	49	63	112
	Total...	1	...	...	...	12	3	...	...	...	...	262	222	517	506	1,023
April 1879.	1st Division.	...	...	...	...	...	...	...	...	...	...	39	40	84	80	164
	2nd do	...	...	1	...	1	1	...	...	...	...	55	48	127	112	239
	3rd do	...	...	...	...	...	...	...	...	...	...	33	39	62	81	143
	4th do	...	...	...	...	1	...	...	...	...	...	5	7	9	14	23
	5th do	...	...	...	...	1	...	...	...	...	...	31	43	65	78	143
	6th do	...	...	...	...	1	...	...	...	...	...	8	8	20	18	33
	7th do	...	...	...	...	...	...	...	...	...	...	58	44	100	103	203
	8th do	...	...	...	...	...	...	...	...	...	...	33	32	68	56	124
	Total...	...	...	1	...	4	1	...	...	...	...	262	256	535	537	1,072
May 1879.	1st Division.	...	...	...	...	...	...	...	...	...	...	48	42	103	90	193
	2nd do	...	...	...	...	1	...	...	...	...	...	81	56	124	97	221
	3rd do	...	...	...	...	...	...	...	...	...	...	37	29	66	64	130
	4th do	...	...	...	...	1	...	...	...	...	...	5	3	7	9	16
	5th do	...	1	...	1	1	2	...	...	...	...	47	35	82	80	162
	6th do	...	...	...	...	2	...	...	...	...	...	5	7	12	12	24
	7th do	...	...	...	...	1	...	...	...	...	...	48	43	88	89	172
	8th do	...	...	...	...	1	...	...	...	...	...	37	28	58	49	107
	Total...	...	1	...	1	7	2	...	...	...	...	308	243	535	490	1,025
June 1879.	1st Division.	...	...	...	...	...	...	...	...	...	...	58	41	103	98	201
	2nd do	...	...	...	...	...	...	...	...	...	...	52	45	77	75	152
	3rd do	...	...	...	...	...	...	...	...	...	...	44	36	65	62	127
	4th do	...	...	...	...	...	...	...	...	...	...	5	9	12	15	27
	5th de	...	...	...	1	...	1	1	...	...	...	39	31	64	79	143
	6th do	...	...	...	...	...	...	...	...	...	...	8	9	5	17	22
	7th do	...	...	...	...	1	...	...	...	...	...	56	46	98	74	172
	8th do	...	...	...	...	1	...	...	...	...	...	22	24	49	38	87
	Total...	...	...	...	1	2	1	1	...	...	...	274	241	473	458	931

VITAL STATISTICS.

TABLE XXIX—DEATHS.—(*Continued*).

Return shewing the Deaths from Special and other Diseases among all Classes for the year 1879, *arranged according to Age and Division.*

Months.	Divisions.	Age at the time of Death.																			
		Born dead.		Not exceeding 1 year.		1 to 6		6 to 12		12 to 20		20 to 30		30 to 40		40 to 50		50 to 60		Exceeding 60 years.	
		M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F
January 1879.	1st Division ...	1	3	39	26	18	14	9	6	6	5	14	21	11	13	11	11	13	12	31	26
	2nd do ...	...	4	34	37	18	25	4	3	8	5	20	7	13	7	8	7	15	8	28	24
	3rd do ...	2	...	26	16	9	7	5	3	3	6	3	4	5	6	9	9	5	4	14	12
	4th do ...	...	...	4	2	4	1	1	...	1	...	2	3	1	2	...	...	...	2	4	2
	5th do ...	2	4	18	24	7	6	4	1	3	11	6	9	9	6	7	1	7	12	14	16
	6th do ...	...	...	5	1	...	2	...	1	2	...	1	...	1	2	2	3	1	...	6	2
	7th do ...	...	...	34	30	11	21	4	...	2	9	7	16	10	3	7	4	4	8	20	23
	8th do ...	...	...	19	7	13	9	3	3	5	3	6	8	3	2	6	6	3	4	14	7
	Total...	5	11	179	143	80	85	30	17	30	39	59	68	53	41	50	41	48	50	131	112
February 1879.	1st Division ...	1	1	18	15	11	15	4	6	5	9	8	8	6	9	9	4	14	8	23	17
	2nd do ...	...	2	26	45	38	44	2	...	3	4	10	8	16	8	10	8	9	6	15	18
	3rd do ...	...	...	19	21	16	14	3	2	4	5	5	5	7	3	3	4	7	6	15	6
	4th do ...	...	1	3	3	1	...	...	...	...	...	1	3	...	...	...	...	2	...	5	...
	5th do ...	5	2	25	15	14	8	2	3	2	2	8	5	3	6	3	10	9	6	17	7
	6th do ...	...	...	...	1	...	2	1	...	...	...	1	2	...	1	1	...	1	3	2	3
	7th do ...	...	1	30	21	9	17	3	1	2	4	7	6	8	6	...	6	6	10	18	17
	8th do ...	...	1	14	10	8	8	2	3	1	2	3	7	2	5	6	2	1	3	7	10
	Total...	6	8	135	131	97	108	17	15	17	26	43	44	42	38	32	34	49	42	102	78
March 1879.	1st Division ...	1	...	30	26	8	16	...	8	3	9	6	13	10	6	14	2	11	7	19	9
	2nd do ...	1	1	30	28	31	29	3	5	2	11	9	5	6	8	8	7	5	12	16	
	3rd do ...	2	...	16	17	20	18	3	3	1	4	5	7	5	2	4	3	6	3	7	9
	4th do ...	...	1	1	4	2	2	...	...	...	...	...	...	1	...	...	...	2	...	1	...
	5th do ...	6	4	28	14	7	15	3	2	2	3	6	11	6	7	2	6	4	9	10	2
	6th do ...	1	1	5	...	1	2	...	1	...	...	3	...	1	...	1	...	1	1	6	3
	7th do ...	4	3	31	21	11	14	4	3	4	4	6	9	2	5	5	5	6	8	11	12
	8th do ...	...	1	8	12	12	18	1	4	2	3	1	8	7	3	4	5	6	2	8	7
	Total...	15	11	149	122	92	114	14	26	17	25	38	57	37	29	38	29	43	35	74	58
April 1879.	1st Division ...	...	...	21	15	16	15	7	4	4	6	4	9	9	7	4	4	11	10	8	10
	2nd do ...	2	4	32	28	28	20	5	5	3	10	10	14	7	4	13	2	7	6	20	19
	3rd do ...	2	2	17	25	14	16	2	1	...	5	2	4	3	6	8	1	8	4	6	17
	4th do ...	...	1	2	2	...	6	...	...	1	...	1	...	1	1	1	...	1	2	2	2
	5th do ...	4	1	22	17	14	15	2	3	...	9	1	10	3	6	1	4	14	5	4	8
	6th do ...	...	1	2	3	1	2	2	1	3	1	1	2	3	1	2	1	1	...	5	1
	7th do ...	5	2	28	24	13	27	1	6	2	3	7	9	8	8	5	5	13	4	18	15
	8th do ...	2	1	14	10	20	16	4	2	3	2	4	2	7	3	4	6	4	1	6	13
	Total...	15	12	188	124	106	117	23	22	16	36	30	50	41	36	38	23	59	32	69	85
May 1879.	1st Division ...	1	1	31	21	8	11	6	5	5	8	8	11	10	7	8	7	10	4	16	15
	2nd do ...	6	1	52	33	8	13	4	2	5	3	15	16	8	6	4	2	7	4	15	17
	3rd do ...	...	3	35	16	5	12	4	5	1	3	2	8	3	3	6	2	5	3	5	9
	4th do ...	2	...	3	4	...	...	...	1	...	...	1	2	...	...	...	...	1	2	...	...
	5th do ...	5	1	27	25	7	14	4	6	3	7	6	10	4	6	3	1	8	4	15	6
	6th do ...	...	1	...	4	2	2	1	1	1	...	2	1	1	1	...	1	1	...	4	1
	7th do ...	1	2	30	28	14	13	2	2	..	3	7	10	4	7	6	3	6	8	13	13
	8th do ...	1	...	27	11	8	8	...	6	1	6	6	5	2	3	3	...	4	2	6	8
	Total...	16	9	205	142	52	73	21	28	16	30	47	63	32	33	30	16	42	27	74	69
June 1789.	1st Division ...	3	3	29	27	13	8	3	3	8	8	10	8	10	9	4	8	7	14	16	10
	2nd do ...	2	1	23	26	7	11	3	1	1	2	6	7	9	5	10	4	9	5	7	13
	3rd do ...	4	3	25	20	5	8	2	3	...	8	5	4	6	3	8	4	6	2	4	7
	4th do ...	...	...	2	5	2	...	...	...	1	3	2	4	...	...	2	1	...	1	3	1
	5th do ...	3	1	17	18	14	15	1	5	2	7	6	5	5	5	5	7	4	8	7	8
	6th do ...	...	...	1	2	1	3	...	...	...	2	1	...	...	2	1	1	...	2	1	5
	7th do ...	6	4	29	19	13	10	1	3	5	4	5	10	7	7	5	4	19	9	8	4
	8th do ...	4	2	12	10	10	9	3	...	3	1	4	2	3	3	3	4	...	1	7	6

VITAL STATISTICS.

TABLE XXIX.—DEATHS.—(*Continued.*)

Return shewing the Deaths from Special and other Diseases among all Classes for the year 1879, *arranged according to Age and Division.*

Months.	Divisions.	Class.										Cause of Death.											
		Europeans.		East Indians.		Native Christians.		Hindus.		Mahomedans.		Cholera.		Small-pox.		Measles.		Fevers.		Dysentery.		Diarrhœa.	
		M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F
July 1879.	1st Division...	...	1	...	3	8	11	97	81	10	13	...	...	3	4	...	...	39	34	11	10	8	10
	2nd do ...	2	2	3	5	3	...	82	99	3	4	...	...	2	2	...	...	22	34	9	9	8	3
	3rd do ...	1	1	4	3	2	1	46	61	16	14	...	...	4	8	...	...	9	15	6	1	5	3
	4th do ...	1	...	...	1	...	...	3	8	5	4	...	...	...	1	...	...	2	3	...	1	1	1
	5th do ...	1	...	3	4	4	7	56	68	3	3	...	...	1	1	...	...	13	14	12	7	3	4
	6th do ...	1	1	...	...	1	...	11	8	...	...	...	...	1	...	...	...	2	3	4	1	...	...
	7th do ...	...	...	1	...	3	2	61	72	23	28	...	...	7	9	...	1	18	28	7	8	2	2
	8th do ...	...	...	1	2	5	5	44	48	6	9	...	...	4	8	...	...	20	16	3	4	1	3
	Total...	6	5	12	18	26	26	400	445	66	75	...	...	22	33	...	1	125	147	52	41	28	26
August 1879.	1st Division...	...	...	1	...	6	5	93	87	17	19	...	...	1	2	...	...	34	31	12	6	6	9
	2nd do ...	5	...	5	7	1	2	91	127	3	1	...	...	1	3	...	1	18	36	13	12	10	9
	3rd do ...	1	1	4	5	3	4	63	65	19	12	...	...	5	7	1	...	17	23	5	4	7	3
	4th do ...	...	...	1	...	...	...	7	11	6	4	...	...	...	...	...	...	5	3	...	3	...	1
	5th do ...	1	1	2	1	11	11	86	92	4	5	...	...	5	3	...	...	23	45	12	11	6	3
	6th do ...	...	1	...	2	1	2	11	9	1	...	...	...	...	1	...	...	3	1	4	2	...	2
	7th do ...	1	...	...	3	2	2	81	67	32	23	...	...	3	9	...	...	21	15	13	15	6	4
	8th do ...	...	...	2	...	4	2	43	46	6	3	...	...	6	3	...	...	11	14	5	5	...	2
	Total...	8	3	15	18	28	28	475	504	88	67	...	...	21	28	1	1	132	168	64	58	35	33
September 1879.	1st Division...	2	...	1	...	9	9	104	110	14	8	...	...	2	...	...	...	41	30	13	13	5	12
	2nd do ...	3	...	3	2	2	2	117	121	2	1	...	...	2	1	...	...	38	30	10	9	7	8
	3rd do ...	2	...	2	2	5	5	52	62	5	8	...	...	1	1	...	...	14	21	2	4	1	4
	4th do ...	...	...	1	...	1	...	7	16	2	1	...	...	...	...	...	...	5	10	...	2	...	...
	5th do ...	1	...	4	7	5	9	74	79	4	2	...	...	3	3	...	...	19	25	3	12	4	8
	6th do ...	...	...	...	...	1	1	11	12	...	1	...	...	...	1	...	...	2	6	2	2	1	...
	7th do ...	...	...	3	2	3	3	74	79	26	30	...	...	8	9	...	...	17	24	10	15	1	6
	8th do ...	1	1	...	3	3	2	59	48	7	7	...	...	7	4	...	...	11	14	8	5	1	5
	Total...	9	1	14	16	29	31	498	522	60	58	...	...	23	19	...	...	147	160	48	62	20	43
October 1879.	1st Division...	...	...	1	1	8	11	91	118	12	13	...	...	2	1	...	...	22	41	12	16	5	2
	2nd do ...	2	2	5	1	7	4	107	113	6	2	...	...	3	...	...	...	32	39	10	7	7	8
	3rd do ...	1	...	4	3	1	1	53	74	6	5	...	...	1	3	...	...	12	24	4	4	2	...
	4th do ...	...	1	...	...	1	...	12	10	3	2	...	...	...	...	...	...	2	2	4	...	...	...
	5th do ...	2	...	3	4	12	3	61	78	2	5	...	...	3	6	...	...	19	17	7	8	1	1
	6th do ...	...	...	...	...	...	...	7	9	...	...	...	...	...	...	...	...	4	4	...	1	...	...
	7th do ...	...	...	1	2	8	2	81	70	35	23	...	...	16	9	...	1	31	16	6	14	8	3
	8th do ...	...	...	1	1	5	6	50	58	13	6	...	...	7	7	...	...	10	16	9	6	...	3
	Total...	5	3	15	12	42	27	462	530	77	56	...	...	32	26	...	1	132	159	52	56	23	17
November 1879.	1st Division...	...	1	1	...	12	7	112	117	10	13	...	...	1	...	...	...	51	35	14	15	5	4
	2nd do ...	2	1	3	1	1	1	107	103	5	1	...	...	1	1	...	...	23	24	12	2	4	5
	3rd do ...	...	...	2	1	1	3	48	69	5	10	...	...	...	...	...	...	13	27	4	2	1	2
	4th do ...	...	...	...	1	...	...	12	14	1	1	...	...	...	...	...	...	1	4	...	2	1	1
	5th do ...	...	1	3	5	12	11	79	88	8	3	...	...	4	5	...	...	22	21	8	13	1	...
	6th do ...	...	...	...	...	...	...	10	9	1	...	...	...	...	...	...	...	1	5	1	1	...	...
	7th do ...	...	...	...	...	3	4	73	83	27	31	...	...	6	12	...	...	28	19	9	11	1	2
	8th do ...	...	...	...	...	4	5	62	47	6	10	...	...	2	2	...	...	20	15	6	7	1	1
	Total...	2	3	9	8	33	31	503	530	63	69	...	...	14	20	...	...	159	150	54	53	14	15
December 1879.	1st Division...	...	...	1	...	11	9	125	130	15	16	...	...	...	1	...	...	43	49	14	18	5	4
	2nd do ...	2	...	7	2	4	1	134	111	1	2	...	...	...	...	...	...	31	37	12	6	6	3
	3rd do ...	...	2	1	3	8	5	65	48	7	16	...	...	1	...	...	...	19	19	8	4	4	3
	4th do ...	...	...	...	...	...	...	12	11	1	1	...	...	...	...	...	...	2	3	...	...	...	...
	5th do ...	2	3	...	4	5	6	85	74	3	5	...	...	...	2	...	...	21	25	14	14	3	1
	6th do ...	...	...	1	...	...	1	15	13	1	1	...	...	...	...	...	...	3	4	2	3	...	1
	7th do ...	1	...	1	4	1	4	91	73	41	32	...	1	4	9	...	...	41	29	6	3	3	2
	8th do ...	...	2	...	1	4	6	60	66	14	14	...	...	7	6	...	...	19	23	7	3	1	2
	Total...	5	7	11	14	33	32	587	526	83	87	...	1	12	18	...	...	179	189	63	56	22	16
	General Total.	59	29	155	146	300	315	5,575	5,544	840	840	20	15	432	478	3	7	1,663	1,802	615	597	259	286

VITAL STATISTICS.

TABLE XXIX.—DEATHS—(*Continued.*)

Return shewing the Deaths from Special and other Diseases among all Classes for the year 1879, *arranged according to Age and Division.*

Months.	Divisions.	Cause of Death.														Total of Males & Females.
		Injuries.										All other causes.		Total.		
		Suicide.		Wounds.		Accident.		Snake-bite.		Killed by wild animals.						
		M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	
July 1879.	1st Division	...	...	...	1	1	3	...	...	...	...	53	47	115	109	224
	2nd do.	...	...	...	...	...	1	...	...	...	...	52	61	98	110	208
	3rd do.	...	...	...	...	...	1	...	...	...	...	45	52	69	80	149
	4th do.	...	...	...	...	1	...	...	...	...	...	5	7	9	13	22
	5th do.	...	...	...	1	1	...	...	...	...	...	37	55	67	82	149
	6th do.	...	...	...	...	1	1	...	...	...	...	5	4	13	9	22
	7th do.	...	...	...	...	1	...	...	...	...	...	53	54	88	102	190
	8th do.	...	...	...	...	...	...	...	...	...	...	28	33	56	64	120
	Total...	...	...	...	2	5	6	...	...	...	...	278	313	510	569	1,079
August 1879.	1st Division	...	...	...	...	1	...	...	...	...	...	63	63	117	111	228
	2nd do.	...	...	...	...	...	...	...	...	...	...	63	76	105	137	242
	3rd do.	...	...	...	...	...	1	...	...	...	...	55	49	90	87	177
	4th do.	...	...	...	...	...	...	...	...	...	...	9	8	14	15	29
	5th do.	...	1	...	...	...	1	...	...	...	...	58	46	104	110	214
	6th do.	...	...	...	...	...	...	...	...	...	...	6	8	13	14	27
	7th do.	2	...	...	...	...	1	...	...	...	...	71	51	116	95	211
	8th do.	...	...	...	...	...	...	1	...	...	...	32	27	55	51	106
	Total...	2	1	...	...	1	3	1	...	...	...	357	328	614	620	1,234
September 1879.	1st Division	...	...	...	...	...	...	...	...	...	...	69	72	130	127	257
	2nd do.	1	...	...	...	...	...	...	...	...	...	69	78	127	126	253
	3rd do.	...	...	...	...	...	...	...	...	...	...	48	47	66	77	143
	4th do.	...	...	...	...	...	...	...	...	...	...	6	5	11	17	28
	5th do.	1	...	1	...	1	...	...	...	...	...	56	49	88	97	185
	6th do.	...	...	...	...	...	...	...	...	...	...	7	5	12	14	26
	7th do.	...	...	...	...	...	...	...	...	...	...	70	60	106	114	220
	8th do.	...	...	...	...	1	...	...	...	...	...	42	28	70	56	126
	Total...	2	...	1	...	2	...	...	...	...	...	367	344	610	628	1,238
October 1879.	1st Division	...	...	2	...	...	2	...	...	...	...	69	81	112	143	255
	2nd do.	...	...	2	...	2	3	...	...	...	...	71	65	127	122	249
	3rd do.	...	...	...	...	1	...	...	...	...	...	45	52	65	83	148
	4th do.	...	...	...	...	...	...	...	...	...	...	10	11	16	13	29
	5th do.	...	...	...	...	1	...	...	...	...	...	49	58	80	90	170
	6th do.	...	...	...	...	...	...	...	...	...	...	3	4	7	9	16
	7th do.	...	...	...	...	...	...	...	...	...	...	64	54	125	97	222
	8th do.	...	...	1	...	...	1	...	...	...	...	42	38	69	71	140
	Total...	...	...	5	...	4	6	...	...	...	...	353	363	601	628	1,229
November 1879.	1st Division	...	...	...	...	...	1	...	...	...	...	64	88	135	138	273
	2nd do.	...	...	2	...	4	1	...	...	...	...	72	74	118	107	225
	3rd do.	...	...	...	...	...	1	...	...	...	...	38	51	56	83	139
	4th do.	...	1	...	...	...	...	...	...	...	...	11	8	13	16	29
	5th do.	...	...	...	...	1	2	...	...	...	...	66	67	102	108	210
	6th do.	...	...	...	...	1	...	...	...	...	...	8	3	11	9	20
	7th do.	...	...	...	...	...	...	...	...	...	...	59	74	103	118	221
	8th do.	...	...	...	...	...	...	...	...	...	...	43	37	72	62	134
	Total...	...	1	2	...	6	5	...	...	...	...	361	397	610	641	1,251
December 1879.	1st Division	...	...	1	...	1	1	...	...	...	...	88	82	152	155	307
	2nd do.	...	2	...	...	1	1	...	...	...	...	98	67	148	116	264
	3rd do.	...	...	...	...	...	...	...	...	...	...	49	48	81	74	155
	4th do.	...	...	...	...	...	...	...	...	...	...	11	9	13	12	25
	5th do.	...	...	...	...	...	1	...	...	...	...	57	49	95	92	187
	6th do.	...	1	...	...	...	...	...	...	...	...	12	6	17	15	32
	7th do.	...	...	...	...	...	1	...	...	...	...	81	68	135	113	248
	8th do.	...	...	...	...	...	...	...	...	...	...	44	50	78	89	167
	Total...	...	3	1	...	2	4	...	...	...	...	440	379	719	666	1,385
	General Total....	6	9	10	6	56	37	2	1	...	...	3,863	3,636	6,929	6,874	13,803

VITAL STATISTICS.

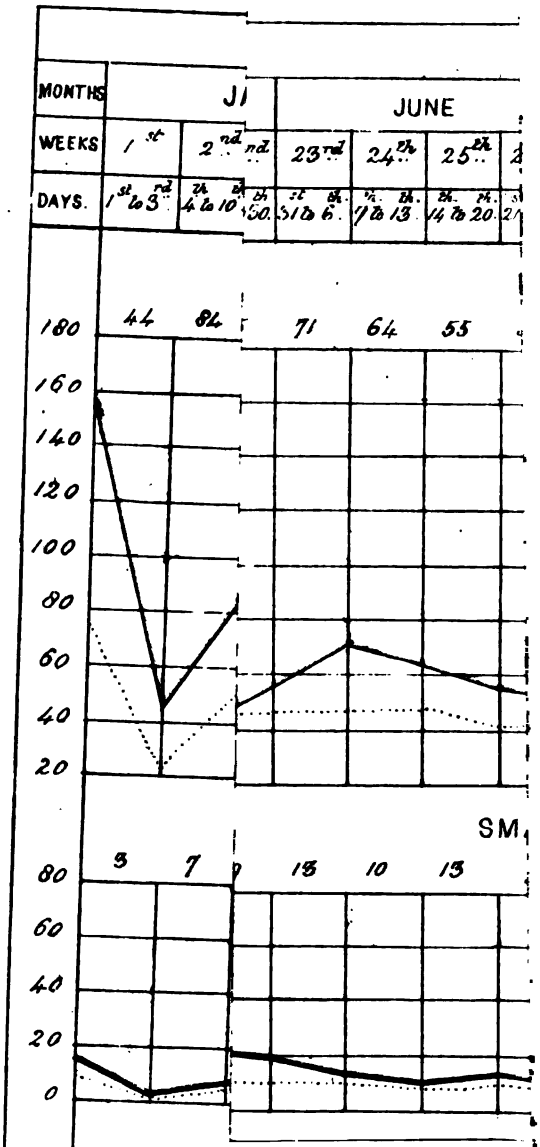
TABLE XXIX.—DEATHS.—(*Concluded.*)

Return shewing the Deaths from Special and other Diseases among all Classes for the year 1879, *arranged according to Age and Division.*

Months.	Divisions.	Age at the time of Death.																			
		Born dead.		Not exceeding 1 year.		1 to 6.		6 to 12.		12 to 20.		20 to 30.		30 to 40.		40 to 50.		50 to 60.		Exceeding 60 years.	
		M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F
July 1879.	1st Division.	1	1	32	28	20	15	5	5	4	7	9	13	10	8	8	6	7	6	19	20
	2nd do. ...	...	4	36	32	6	13	3	2	5	12	10	12	8	5	6	7	7	4	12	19
	3rd do. ...	1	1	25	29	8	10	...	2	3	2	8	9	9	3	2	4	3	1	10	19
	4th do. ...	...	...	4	6	2	1	...	...	...	...	...	3	2	...	...	...	...	1	1	2
	5th do. ...	8	4	29	28	5	6	2	2	2	6	3	11	5	6	4	4	3	2	6	13
	6th do. ...	...	...	2	3	4	2	...	1	1	1	1	...	1	1	1	...	1	1	2	...
	7th do. ..	4	1	41	36	9	10	3	2	1	1	6	8	6	16	1	5	5	4	12	19
	8th do. ...	1	2	14	18	11	11	3	4	3	2	4	7	2	6	5	3	6	3	7	8
	Total...	15	13	183	180	65	68	16	18	19	31	41	63	43	45	27	29	32	22	69	100
August 1879.	1st Division.	2	1	27	45	16	13	3	3	7	3	13	10	11	9	9	5	8	7	21	15
	2nd do. ...	3	4	38	52	8	22	3	...	1	7	8	13	7	6	8	5	13	5	16	23
	3rd do. ...	7	4	40	23	7	12	...	4	2	2	11	11	6	7	6	6	9	5	12	13
	4th do. ...	...	...	6	9	...	1	...	...	...	1	1	1	1	1	4	...	...	...	2	2
	5th do. ...	8	7	49	33	12	21	1	7	2	10	3	10	4	3	5	3	5	4	15	12
	6th do. ...	2	2	7	5	1	2	...	...	2	2	...	...	...	...	...	...	1	...	...	3
	7th do. ...	1	3	44	22	11	20	6	2	2	6	10	11	7	4	9	6	14	3	12	18
	8th do. ...	1	1	17	17	10	7	1	4	2	...	6	4	3	4	5	6	1	2	9	6
	Total...	24	22	228	206	65	98	14	20	18	31	42	60	39	34	46	31	51	26	87	92
September 1879.	1st Division.	4	5	48	23	17	18	3	3	4	9	7	12	14	14	8	14	9	8	16	26
	2nd do. ...	2	4	43	53	16	7	1	3	7	6	12	14	11	5	12	10	10	8	13	16
	3rd do. ...	6	2	26	29	5	6	2	3	1	3	1	12	6	3	1	3	7	4	11	12
	4th do. ...	1	...	7	8	1	1	...	...	...	1	...	2	1	1	...	2	1	1	...	1
	5th do. ...	4	5	37	39	8	10	1	2	2	3	10	11	5	9	5	6	5	...	11	12
	6th do. ...	...	...	8	4	2	2	...	...	...	...	...	4	2	1	...	...	...	2	...	1
	7th do. ...	2	4	50	39	7	16	2	2	3	3	1	10	11	8	6	8	9	9	15	15
	8th do. ...	1	1	28	15	8	7	2	2	1	1	3	10	6	5	9	5	3	2	9	8
	Total...	20	21	247	210	64	62	11	15	18	26	34	75	56	46	41	48	44	34	75	91
October 1879.	1st Division.	...	1	46	48	8	14	2	6	2	3	10	17	5	12	13	9	12	11	14	22
	2nd do. ...	6	2	46	42	7	12	1	3	5	7	8	9	13	8	9	7	15	6	17	26
	3rd do. ...	4	3	31	32	5	9	...	1	1	7	4	7	3	5	4	4	7	2	6	13
	4th do. ...	1	...	6	6	4	1	...	...	...	1	1	1	...	1	3	1	...	...	1	2
	5th do. ...	5	3	33	30	10	9	3	3	2	4	6	13	4	5	2	6	6	4	9	13
	6th do. ...	...	1	1	2	2	...	...	1	...	1	1	1	1	1	...	...	1	1	1	1
	7th do ...	3	2	55	34	25	21	6	3	1	2	4	7	3	6	4	3	10	6	14	13
	8th do. ...	2	4	19	21	6	11	3	1	2	3	3	4	7	6	3	3	4	6	15	12
	Total...	21	16	237	215	67	77	15	18	13	28	42	59	36	44	38	33	55	36	77	102
November 1879.	1st Division.	3	4	39	36	11	13	6	3	5	7	17	22	6	10	14	17	10	14	24	12
	2nd do. ...	3	7	42	30	9	7	4	3	4	9	13	10	10	4	8	8	7	12	18	17
	3rd do. ...	1	3	26	28	5	5	...	2	1	3	4	9	3	3	5	3	3	3	8	24
	4th do. ...	3	2	5	5	2	1	...	1	...	1	...	...	1	1	...	2	1	1	1	2
	5th do. ...	5	4	47	43	8	13	2	4	...	6	4	9	8	6	5	5	9	6	14	12
	6th do. ...	...	...	4	8	...	1	1	...	1	1	2	...	1	3	...	...	...	...	2	1
	7th do. ...	2	2	43	46	14	23	4	3	5	1	6	6	4	4	7	5	8	8	10	20
	8th do. ...	1	1	27	20	3	9	3	2	2	3	6	7	10	2	5	3	8	4	7	11
	Total...	18	23	233	211	52	72	20	18	18	31	52	63	43	33	44	43	46	48	84	99
December 1879	1st Division.	3	5	65	42	16	20	5	4	5	11	9	16	9	14	7	6	13	7	20	30
	2nd do. ...	3	2	51	36	11	15	4	3	4	7	10	10	9	6	9	6	14	6	33	25
	3rd do. ...	2	1	34	18	11	6	...	2	1	4	3	6	4	3	2	3	3	6	16	20
	4th do. ...	...	...	6	7	1	2	...	...	...	...	1	...	...	...	2	1	...	1	3	1
	5th do. ...	4	2	33	29	12	18	3	3	3	2	3	7	3	4	6	6	6	10	17	11
	6th do. ...	...	...	6	2	...	2	...	...	1	1	1	2	2	4	3	2	3	1	1	1
	7th do. ...	5	2	56	42	19	17	2	4	5	3	3	3	7	9	9	4	10	9	19	10
	8th do. ...	2	...	25	26	14	18	4	2	3	3	3	2	3	6	5	6	3	11	11	15
	Total...	19	12	276	202	84	98	18	18	22	36	33	51	42	51	43	34	62	51	120	113
	General Total	196	172	2,348	2,013	889	1,086	212	230	224	374	500	693	504	464	465	394	576	445	1,015	1,053

1
3
1
2
1
9
2
9
4
0
1
3
·4
·7
·6
·3
·7
·3
·3
·9
8·8
5·0
3·0
2·6
3·7
9·6
7·7
4·1
9·9
5·2
4·9
18·0
4·9
14·2
10·0
34·2
39·2
38·3
39·2
72·3
31·7

L AND ALL DIS



Return a

Number.

1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32 3 3 4 4 4

VITAL STATISTICS.

TABLE XXX.—DEATHS.

Return shewing the Deaths in the City of Madras, for the year 1879, arranged according to Weeks.

Number.	Weeks.	Deaths from								
		Small-pox.	Measles.	Fevers.	Dysentery.	Diarrhœa.	Cholera.	Other Diseases.	Total.	Ratio per Mile per annum.
1	1st to 3rd Jan. 1879. ...	3	...	44	23	7	1	80	158	...
2	4th to 10th „ „ ...	7	...	84	22	18	8	159	298	38·9
3	11th to 17th „ „ ...	10	...	97	28	6	14	132	287	37·5
4	18th to 24th „ „ ...	11	...	77	41	13	8	154	304	39·8
5	25th to 31st „ „ ...	15	...	76	31	6	...	114	242	31·2
6	1st to 7th Feb. „ ...	20	2	65	22	15	1	145	270	35·3
7	8th to 14th „ „ ...	33	...	59	26	14	...	138	270	35·3
8	15th to 21st „ „ ...	30	...	60	20	11	...	142	263	34·4
9	22nd to 28th „ „ ...	49	...	67	16	5	...	128	265	34·6
10	1st to 7th March „ ...	23	...	61	21	8	...	108	221	28·9
11	8th to 14th „ „ ...	34	...	55	22	4	...	106	221	28·9
12	15th to 21st „ „ ...	54	...	55	14	7	...	130	260	34·0
13	22nd to 28th „ „ ...	30	1	56	21	8	...	110	226	29·5
14	29th to 4th April „ ...	43	...	57	17	6	2	94	219	28·6
15	5th to 11th „ „ ...	39	...	41	17	12	...	106	215	28·1
16	12th to 18th „ „ ...	25	...	71	21	11	...	149	277	36·2
17	19th to 25th „ „ ...	57	...	52	17	11	...	124	261	34·1
18	26th to 2nd May „ ...	31	2	69	21	9	...	120	252	32·9
19	3rd to 9th „ „ ...	19	...	72	23	5	...	112	231	30·2
20	10th to 16th „ „ ...	19	...	57	16	10	...	135	237	30·9
21	17th to 23rd „ „ ...	21	...	41	14	9	...	125	210	27·4
22	24th to 30th „ „ ...	19	...	55	23	12	...	151	260	34·0
23	31st to 6th June „ ...	13	1	71	22	15	...	124	246	32·1
24	7th to 13th „ „ ...	10	...	64	20	9	..	114	217	28·3
25	14th to 20th „ „ ...	13	...	55	12	8	...	114	202	26·4
26	21st to 27th „ „ ...	9	...	51	21	11	...	128	220	28·7
27	28th to 4th July „ ...	14	...	48	13	8	...	121	204	26·6
28	5th to 11th „ „ ...	13	1	64	16	9	...	106	209	27·3
29	12th to 18th „ „ ...	10	...	54	25	9	...	137	235	30·7
30	19th to 25th „ „ ...	14	...	65	23	18	..	150	270	35·3
31	26th to 1st Aug. „ ...	13	...	65	22	15	...	163	278	36·3
32	2nd to 8th „ „ ...	10	...	73	27	17	...	140	267	34·9
33	9th to 15th „ „ ...	11	2	58	30	22	...	136	259	33·8
34	16th to 22nd „ „ ...	11	...	76	30	8	...	143	268	35·0
35	23rd to 29th „ „ ...	9	...	60	24	14	...	184	291	38·0
36	30th to 5th Sept. „ ...	10	...	81	30	16	...	189	326	42·6
37	6th to 12th „ „ ...	13	...	67	23	12	...	143	258	33·7
38	13th to 19th „ „ ...	10	...	69	27	17	...	180	303	39·6
39	20th to 26th „ „ ...	9	...	73	22	13	...	172	289	37·7
40	27th to 3rd Oct. „ ...	8	..	67	23	13	...	150	261	34·1
41	4th to 10th „ „ ...	10	1	87	24	7	...	176	305	39·9
42	11th to 17th „ „ ...	17	...	64	19	12	...	157	269	35·2
43	18th to 24th „ „ ...	7	...	57	33	9	...	161	267	34·9
44	25th to 31st „ „ ...	19	...	56	25	11	...	180	291	38·0
45	1st to 7th Nov. „ ...	10	...	89	33	10	...	202	344	44·9
46	8th to 14th „ „ ...	15	...	65	23	8	...	151	262	34·2
47	15th to 21st „ „ ...	5	...	79	16	1	...	205	306	40·0
48	22nd to 28th „ „ ...	4	...	63	27	9	...	159	262	34·2
49	29th to 5th Dec. „ ...	7	...	74	19	5	...	196	301	39·2
50	6th to 12th „ „ ...	9	...	76	19	8	...	181	293	38·3
51	13th to 19th „ „ ...	4	...	78	24	10	...	184	300	39·2
52	20th to 31st „ „ ...	11	...	145	64	14	1	318	553	72·3
	Total...	910	10	3,465	1,212	545	35	7,626	13,803	34·7

VITAL STATISTICS.

TABLE XXXI.—DEATHS.

Return shewing the average Deaths in the City of Madras, for 10 previous years, arranged according to Weeks.

Number.	Weeks.	Deaths from								
		Small-pox	Measles.	Fevers.	Dysentery.	Diarrhœa.	Cholera.	Other Diseases.	Total.	Ratio per mile per annum.
1	1st to 3rd Jan. 1879.	2·1	0·1	23·0	11·0	6·6	5·8	68·4	117·0	...
2	4th ,, 10th ,, ,,	4·8	0·7	51·5	24·3	18·7	10·5	159·6	270·1	35·3
3	11th ,, 17th ,, ,,	5·7	0·7	51·1	23·9	16·0	13·1	170·9	281·4	36·8
4	18th ,, 24th ,, ,,	9·1	0·6	50·7	22·7	17·9	17·6	164·3	282·9	37·0
5	25th ,, 31st ,, ,,	8·6	0·5	50·3	23·4	20·3	12·8	156·8	272·7	35·6
6	1st ,, 7th Feb. ,,	9·8	0·9	48·3	22·8	20·0	11·9	147·1	260·8	34·1
7	8th ,, 14th ,, ,,	12·7	0·9	47·6	21·6	15·8	13·5	152·3	264·4	34·5
8	15th ,, 21st ,, ,,	13·2	1·0	45·2	21·4	16·1	7·8	167·8	272·5	33·0
9	22nd ,, 28th ,, ,,	14·1	1·3	47·5	23·7	16·1	9·4	149·4	261·5	34·2
10	1st ,, 7th March ,,	19·1	1·4	43·1	22·5	15·9	7·4	141·7	251·1	32·8
11	8th ,, 14th ,, ,,	15·0	1·4	48·7	20·3	18·1	4·7	146·9	255·1	33·3
12	15th ,, 21st ,, ,,	17·9	1·1	45·6	18·8	14·5	2·9	143·4	244·2	31·9
13	22nd ,, 28th ,, ,,	23·7	1·1	48·6	19·9	17·4	3·2	142·6	256·5	33·5
14	29th ,, 4th April ,,	21·2	1·6	42·4	16·0	15·5	5·1	134·8	236·6	30·9
15	5th ,, 11th ,, ,,	24.2	2·1	43·0	16·0	13·2	3·5	133·7	235·7	30·8
16	12th ,, 18th ,, ,,	23·0	1·6	44·2	15·6	12·5	6·2	146·3	249·4	32·6
17	19th ,, 25th ,, ,,	20·4	1·5	46·4	16·9	15·4	3·6	149·2	253·4	33·1
18	26th ,, 2nd May ,,	17·2	0·8	43·7	17·9	14·6	4·8	146·3	245·3	32·0
19	3rd ,, 9th ,, ,,	16·0	1·2	46·4	17·1	14·6	7·7	142·5	245·5	32·1
20	10th ,, 16th ,, ,,	15·0	1·4	46·9	14·2	15·4	9·7	150·8	253·4	33·1
21	17th ,, 23rd ,, ,,	10·1	0·4	44·5	16·4	17·0	10·2	141·9	240·5	31·4
22	24th ,, 30th ,, ,,	10·1	0·5	46·8	18·9	16·4	13·4	151·6	257·7	33·7
23	31st ,, 6th June ,,	10·2	0·5	46·8	21·0	14·1	17·3	153.8	263·7	34·4
24	7th ,, 13th ,, ,,	8·1	0·7	47·7	15·8	17·1	21·3	146·8	257·5	33·6
25	14th ,, 20th ,, ,,	8·8	0·6	42·5	18·2	16·1	12·9	148·4	247·5	32·3
26	21st ,, 27th ,, ,,	8·0	0·2	44·1	20·2	16·6	10·5	144·4	244·0	31·9
27	28th ,, 4th July ,,	7·5	0·4	47·4	17·5	17·3	12·0	145·8	247·9	32·4
28	5th ,, 11th ,, ,,	4·7	0·3	46·2	19·2	16·2	8·6	150·2	245·4	32·0
29	12th ,, 18th ,, ,,	5·5	0·3	46·4	18·8	17·3	...	155·1	243·4	32·9
30	19th ,, 25th ,, ,,	8·9	0·2	43·3	21·4	19·9	12·5	154·4	260·6	34·1
31	26th ,, 1st Aug. ,,	6·4	0·3	43·2	21·9	18·1	13·5	152·2	255·6	33·4
32	2nd ,, 8th ,, ,,	6·3	0·3	44·5	19·3	24·1	16·7	151·7	262·9	34·3
33	9th ,, 15th ,, ,,	5·1	...	47·4	20·7	21·3	16·7	157·0	268·2	35·0
34	16th ,, 22nd ,, ,,	8·7	0·2	48·7	20·5	19·5	16·2	157·3	271·1	35·4
35	23rd ,, 29th ,, ,,	5·7	...	45·2	22·7	21·8	19·0	148·9	263·3	34·4
36	30th ,, 5th Sep. ,,	6·6	0·3	47·2	22·7	21·5	21·3	153·7	273·3	35·7
37	6th ,, 12th ,, ,,	5·4	0·4	47·4	24·9	16·8	14·0	156·0	264·9	34·6
38	13th ,, 19th ,, ,,	3·5	0·4	44·3	23·8	18·0	14·7	149·2	253·9	33·2
39	20th ,, 26th ,, ,,	3·1	0·2	46·1	21·3	18·1	9·7	151·1	249·6	32·6
40	27th ,, 3rd Oct. ,,	4·5	0·5	44·1	24·4	18·7	8·9	160·2	261·3	34·2
41	4th ,, 10th ,, ,,	4·5	0·4	51·5	18·2	17·0	6·6	148·2	246·4	32·2
42	11th ,, 17th ,, ,,	3·2	0·3	45·8	20·9	17·0	5·0	152·4	244·6	31·9
43	18th ,, 24th ,, ,,	3·3	0·2	44·4	18·7	15·3	6·4	148·5	236·8	31·0
44	25th ,, 31st ,, ,,	3·4	0·2	41·0	19·8	17·0	7·4	148·6	237·4	31·1
45	1st ,, 7th Nov. ,,	4·7	0·3	42·7	21·3	16·9	7·1	158·0	251·0	32·8
46	8th ,, 14th ,, ,,	3·3	0·4	44·8	19·1	17·7	7·3	156·8	249·4	32·6
47	15th ,, 21st ,, ,,	2·4	0·5	42·4	19·4	19·5	6·1	157·0	247·3	31·1
48	22nd ,, 28th ,, ,,	4·3	0·8	40·7	21·5	15·8	7·3	165·1	255·5	33·4
49	29th ,, 5th Dec. ,,	4·1	0·7	45·4	22·5	19·8	11·8	165·9	270·2	35·3
50	6th ,, 12th ,, ,,	4·9	0·2	45·5	24·0	24·1	11·9	162·3	272·9	35·7
51	13th ,, 19th ,, ,,	7·0	0·3	48·1	22·4	21·3	14·0	164·8	277·9	36·3
52	20th ,, 27th ,, ,,	5·2	0·6	46·2	23·2	21·4	17·4	160·3	274·3	35·9
53	28th ,, 31st ,, ,,	4·2	...	47·7	29·4	15·3	3·6	117·9	218·1	...
	Total...	484·5	33·5	2414·2	1080·0	918·6	542·5	7950·3	13423·6	1755·8

VITAL STATISTICS.

TABLE XXXII.—DEATHS.

Return shewing the Total of Monthly Registration of Births and Deaths in the City of Madras, for the year 1879, arranged according to Division.

Municipal Divisions.	Names of Villages.	Population.	January.		February.		March.		April.	
			Births.	Deaths.	Births.	Deaths.	Births.	Deaths.	Births.	Deaths.
1	Tondiarpettah	35,240	9	7	10	5	11	6	10	3
	Washermenpettah	6,409	122	122	109	80	105	74	114	68
	Royapuram	11,089	90	68	58	30	74	52	70	38
	Cashmode	12,383	28	54	39	39	36	37	42	32
	Total...	65,121	249	251	216	154	226	169	236	141
2	Peddoo Naick's Pettah	65,629	151	251	121	253	158	209	129	219
	Big Parcherry	5,179	...	3	...	1	...	...	1	2
	John Pereira's Garden	2,930	...	3	...	...	...	2	...	1
	Total...	73,738	151	257	121	254	158	211	130	222
3	Moothealpettah	32,062	104	146	95	145	116	135	123	143
	Uttapaulium	18,895	...	...	...	...	...	...	...	...
	Fort Saint George	1,588	...	...	...	...	...	...	...	...
	Total...	52,545	104	146	95	145	116	135	123	143
4	Gunpowder Mills	641	3	...	2	...	1	...	2	...
	Perambere	5,650	29	21	20	17	20	12	19	18
	Viasarapandy	3,500	2	8	3	2	6	2	6	5
	Total...	9,791	34	29	25	19	27	14	27	23
5	Choolay	15,000	39	32	25	35	29	38	36	39
	Pursewalkum	19,006	48	63	34	55	42	46	46	47
	Pereamettoo ... ... }	11,275	20	16	15	14	16	16	10	13
	New Town ... ... }		...	...	1	2	1	2	1	3
	Vepery	4,500	6	6	6	8	10	6	8	8
	Poodoopettah	3,774	5	12	18	12	5	8	13	8
	Egmore	4,392	13	8	6	8	17	9	13	3
	Comaleeswarapuram	7,544	12	16	8	5	10	4	15	6
	Total...	65,491	148	153	113	139	130	129	142	127
6	Kilpaukum	5,222	4	3	13	1	10	4	2	3
	Chetput	2,611	27	8	17	6	12	5	10	7
	Nungumbaukum	7,704	19	7	12	6	27	14	22	11
	Mackey's Garden	3,853	13	4	17	4	20	2	19	7
	Total...	19,390	63	22	59	17	69	25	53	28
7	Poodoopaukum	6,087	24	30	24	25	20	22	28	30
	Chintadripettah	15,120	36	50	24	32	31	32	34	34
	Narasingapuram	3,046	1	4	10	6	4	5	6	12
	Triplicane	33,253	77	112	64	93	74	90	86	119
	Theroovateeswaranpettah	12,057	5	17	5	11	7	19	10	8
	Total...	69,568	143	213	127	172	136	168	164	203
8	Saint Thomé	20,575	45	55	44	41	56	53	42	58
	Alwarpettah...	1,163	5	6	3	3	3	5	...	5
	Royapettah	5,255	21	12	5	12	6	10	16	21
	Meer Saib'spettah	2,050	7	17	11	15	8	16	5	13
	Kistnampettah	5,193	5	12	12	16	9	14	8	9
	Thanampettah	7,246	7	13	9	7	12	5	10	15
	Total...	41,482	90	115	84	94	94	103	81	121
	General Total...	397,126	983	1,186	840	994	956	954	956	1,008
Hospitals.	Monegar Choultry Hospital ...	426	...	39	...	37	...	29	...	28
	General „	...	1	18	...	18	...	11	3	17
	Lock „	...	...	2	...	...	...	...	...	...
	Hospital for Women and Children ...	...	...	6	1	9	...	11	...	11
	Lying-in Hospital	...	90	4	88	3	62	7	70	5
	Penitentiary Hospital	...	1	4	...	1	...	...	...	...
	Lunatic Asylum	...	...	7	...	1	...	2	...	5
	Royapettah Hospital	...	...	6	...	1	...	9	...	3
	Total...	426	92	86	89	70	62	69	73	64
	General Total...	397,552	1,074	1,272	929	1,064	1,018	1,023	1,029	1,072

VITAL STATISTICS.

TABLE XXXII.—DEATHS.—(*Continued.*)

Return shewing the Total of Monthly Registration of Births and Deaths in the City of Madras, for the year 1879, arranged according to Division.

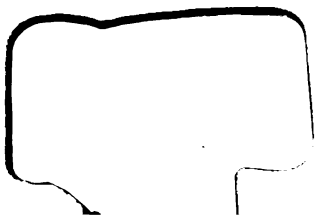
Municipal Divisions.	Names of Villages.	May.		June.		July.		August.		September.	
		Births.	Deaths.	Births.	Deaths.	Births.	Deaths.	Births.	Deaths.	Births.	Deaths.
1	Tondiarpettah	11	7	7	9	11	8	9	5	23	14
	Washermenpettah... ...	120	67	126	56	176	93	145	81	176	102
	Royapuram...	59	48	72	64	78	48	87	60	115	63
	Cashmode	43	36	45	38	57	47	67	51	35	42
	Total...	233	158	250	167	322	196	308	197	349	221
2	Peddoo Naick's Pettah ...	169	196	169	135	191	188	293	215	275	230
	Big Parcherry	...	1	...	2	...	3	...	5	...	2
	John Pereira's Garden ...	...	2	...	1	1	...	...	...	...	...
	Total...	169	199	169	138	192	191	293	220	275	232
3	Moothealpettah	127	123	152	126	185	148	217	176	212	140
	Uttapaulium	...	...	...	...	...	...	...	...	...	...
	Fort Saint George... ...	...	...	...	...	...	...	...	1	...	2
	Total...	127	129	152	126	185	148	217	177	212	142
4	Gunpowder Mills	1	...	1	...	...	...	...	...	...	1
	Perambore	25	10	30	22	44	21	42	28	37	19
	Viasarapaudy	4	6	4	5	6	1	8	1	6	8
	Total...	30	16	35	27	50	22	50	29	43	28
5	Choolay	29	26	27	24	50	27	40	40	50	44
	Pursewalkum	61	54	60	56	55	64	83	87	73	49
	Pereamettoo	12	15	10	15	16	14	19	20	31	23
	New Town	...	4	1	2	...	...	...	4	...	3
	Vepery	10	9	16	8	9	5	22	6	17	14
	Poodoopettah	12	16	10	14	7	5	14	17	17	10
	Egmore	14	13	12	6	13	12	20	15	16	9
	Comaleeswarapuram ...	13	10	12	7	8	8	10	8	11	11
	Total...	151	147	148	132	163	135	208	197	215	163
6	Kilpaukum	16	6	10	2	6	2	10	6	10	1
	Chetput	13	3	10	4	27	4	27	5	21	1
	Nungumbaukum ... —	30	12	19	11	18	12	23	13	43	15
	Mackey's Garden	18	...	11	2	18	2	21	3	34	8
	Total...	77	21	50	19	69	20	81	27	108	25
7	Poodoopaukum	24	23	20	25	24	33	34	31	44	24
	Chintadripettah	40	33	45	38	58	47	56	53	57	57
	Narasingapuram	2	9	7	10	10	7	7	10	6	7
	Triplicane	87	92	93	86	123	87	125	106	113	116
	Theroovateeswaranpettah..	10	15	12	13	13	16	17	11	20	16
	Total...	163	172	177	172	228	190	239	211	245	220
8	Saint Thomé	55	58	63	55	63	61	96	55	96	64
	Alwarpettah	2	4	7	5	1	4	8	4	5	6
	Royapettah...	13	10	16	12	22	24	12	12	14	14
	Meer Saib's Pettah ...	11	9	12	4	20	11	19	10	17	14
	Kistnampettah	10	10	8	6	9	10	11	6	21	11
	Thanampettah	7	9	10	3	19	7	18	11	15	8
	Total...	98	100	116	85	139	117	164	98	168	117
	General Total...	1,048	942	1,097	866	1,348	1,019	1,560	1,156	1,615	1,148
Hospitals.	Monegar Choultry Hospital.	...	35	...	34	...	28	...	31	...	36
	General „ ...	3	22	...	14	1	12	1	22	5	21
	Lock „ ...	...	1	...	1	...	1	...	...	...	1
	Hospital for Women and Children	1	10	...	8	...	6	...	3	...	5
	Lying-in-Hospital... ...	81	3	111	1	118	7	156	13	159	15
	Penitentiary Hospital ...	1	2	...	2	...	1	...	1	...	2
	Lunatic Asylum	...	2	...	3	...	2	...	...	...	1
	Royapettah Hospital ...	...	8	...	2	...	3	...	8	...	9
	Total...	86	83	111	65	119	60	157	78	164	90
	General Total...	1,134	1,025	1,208	931	1,467	1,079	1,717	1,234	1,779	1,238

VITAL STATISTICS.

TABLE XXXII.—DEATHS.—(*Concluded.*)

Return shewing the Total of Monthly Registration of Births and Deaths in the City of Madras, for the year 1879, arranged according to Division.

Municipal Divisions.	Names of Villages	October.		November.		December.		Total.		Ratio per 1,000 of population.	
		Births.	Deaths.	Births.	Deaths.	Births.	Deaths.	Births.	Deaths.	Births.	Deaths.
1	Tondiarpettah	40	22	25	24	32	27	198	137	46·0	28·4
	Washermenpettah ...	179	91	163	90	187	119	1,722	1,048		
	Royapuram ...	90	59	106	68	86	77	985	675	88·8	60·8
	Cashmode	44	46	52	45	63	60	551	527	44·5	42·7
	Total...	353	218	346	227	368	283	3,456	2,382	53·0	36·5
2	Peddoo Naick's Pettah ...	293	218	257	202	256	243	2,462	2,559	37·2	38·9
	Big Parcherry	...	4	...	1	...	3	1	27	0·1	5·2
	John Pereira's Garden ...	...	...	...	...	...	1	1	10	0·3	3·4
	Total...	293	222	257	203	256	247	2,464	2,596	33·4	35·2
3	Moothealpettah	204	148	202	139	169	153	1,906	1,728	59·4	33·9
	Uttapaulium	...	...	...	...	...	...	...	...		
	Fort St. George	...	...	...	...	...	...	...	3	...	1·8
	Total...	204	148	202	139	169	153	1,906	1,731	59·4	32·9
4	Gunpowder Mills ...	...	...	...	...	...	...	10	1	15·6	1·5
	Perambore	37	26	33	23	43	20	379	237	67·0	41·9
	Viasarapaudy	6	3	8	6	10	5	69	52	19·7	14·8
	Total...	43	29	41	29	53	25	458	290	46·7	29·6
5	Choolay...	44	29	35	41	50	47	454	422	30·2	28·1
	Pursewalkum	105	62	99	89	99	81	805	753	42·3	39·6
	Pereamettoo	26	23	27	13	26	16	223	198	20·5	20·3
	New Town	...	1	...	7	...	2	4	30		
	Vepery	16	11	10	6	14	3	144	90	31·7	20·0
	Poodoopettah	14	9	25	12	16	9	156	131	41·3	34·7
	Egmore...	29	15	21	17	26	6	210	121	30·4	19·1
	Comaleeswarapuram ...	11	9	15	12	28	11	153	107		
	Total...	245	159	232	197	259	175	2,154	1,853	32·3	28·2
6	Kilpaukum	12	2	8	...	10	...	111	30	21·2	5·7
	Chetput...	26	...	20	2	20	6	230	51	88·0	29·3
	Nungumbaukum	35	9	20	9	54	15	322	134	47·7	17·3
	Mackey's Garden ...	32	3	14	6	35	4	252	45	65·4	11·6
	Total...	105	14	62	17	119	25	915	260	47·1	13·1
7	Poodoopaukum	37	27	38	21	29	35	346	326	56·8	53·1
	Chintadripettah	69	58	82	49	53	58	585	541	38·6	35·7
	Narasingapuram	5	12	9	6	13	8	80	96	26·2	31·5
	Triplicane	121	102	128	135	130	126	1,226	1,269	36·8	38·1
	Theroovateeswaranpettah...	22	23	10	10	18	21	149	180	12·3	14·9
	Total...	254	222	267	221	243	248	2,386	2,412	34·2	34·6
8	Saint Thomé	84	78	75	59	75	94	799	731	39·3	36·6
	Alwarpettah	3	3	11	11	8	9	56	65		
	Royapettah	20	16	30	21	26	25	201	189	38·2	35·9
	Meer Saib's Pettah ...	11	8	13	13	11	15	145	145	70·7	70·7
	Kistnampettah ...	16	12	16	10	10	10	135	126	25·9	24·2
	Thanampettah	21	12	21	16	14	11	163	117	22·4	16·1
	Total...	155	129	166	130	144	164	1,499	1,373	36·1	33·0
	General Total...	1,652	1,141	1,573	1,163	1,611	1,320	15,233	12,897	38·3	32·4
Hospitals.	Monegar Choultry Hospital	...	37	...	46	...	24	...	399	...	936·6
	General ,, ...	5	27	3	22	2	17	24	221	...	...
	Lock ,, ...	...	...	...	...	...	2	...	8	...	...
	Hospital for Women and Children	...	4	...	1	...	4	2	78	...	...
	Lying-in-Hospital ...	159	7	151	11	118	8	1,363	84	...	...
	Penitentiary Hospital ...	...	...	...	1	...	...	2	14	...	...
	Lunatic Asylum	...	2	...	3	...	7	...	35	...	...
	Royapettah Hospital ...	...	11	...	4	...	3	...	67	...	...
	Total...	164	88	154	88	120	65	1,391	906	..	...
	General Total...	1,816	1,229	1,727	1,251	1,731	1,385	16,629	13,803	41·8	34·7

N. BAZELY,

Office Assistant, Municipal Commission.